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Circulation

शासकीय माधव विज्ञान महाविद्यालय, उज्जैन

सतत् व्यापक मूल्यांकन (संशोधित) 04 सितम्बर 2015

बी. एससी. प्रथम, तृतीय एवं पंचम सेमेस्टर के समस्त विधार्थी हेतु **CCE** दिनांक **14** एवं **15** सितम्बर **2015** को नियमित कालखण्ड में अध्यापन के दौरान निम्नलिखित कार्यक्रम अनुसार संपन्न होगा–

विषय	दिनांक	कक्ष एवं समय
Physics, Computer Science, Economics, Information Technology, Hindi, English, Environmental Studies/Computer, Computer Application, Chemistry, Ph. Chemistry	14/09/2015	नियमित कालखण्ड में अध्यापन के दौरान
Zoology, Mathematics, Electronics, Geography, Botany, Geology, Statistics, Microbiology, Bioinformatics, Biotechnology	15/09/2015	नियमित कालखण्ड में अध्यापन के दौरान

M.Sc. के CCE विभागाध्यक्ष सुविधानुचार सितम्बर माह में संपन्न कर लें।
सम्बन्धित विधार्थी अधिक जानकारी के लिये विषय के विभागाध्यक्ष से शीघ्र संपर्क करें।

विभागाध्यक्ष

1. Physics
2. Computer Science
3. Economics
4. Mathematics, Information Technology
5. Hindi On leave

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6. English
7. Biotechnology
8. Computer Application
9. Zoology
10. Electronics
11. Geography
12. Botany
13. Geology
14. Pharmaceutical Chemistry
15. Statistics
16. Microbiology
17. Bioinformatics
18. Chemistry

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सतत् व्यापक मूल्यांकन

02/02/2016

बी.एससी. **द्वितीय, चतुर्थ** एवं **षष्ठम** सेमेस्टर के समस्त विद्यार्थियों हेतु **CCE दिनांक 15/02/2016 से 18/02/2016** को नियमित कालखण्ड में अध्यापन के दौरान निम्नलिखित कार्यक्रम अनुसार संपन्न होंगे –

Subject	Date	Class
Physics, Computer science, Economics, IT, Comp. Application, Chemistry, Ph. Chemistry, Statistics	15/02/2016	B.Sc. II sem
Zoology, Maths, Electronics, Geography, Botany, Geology, Microbiology , Bioinformatics, Biotechnology	15/02/2016	B.Sc. IV & VI sem
Zoology, Maths, Electronics, Geography, Botany, Geology, Microbiology , Bioinformatics, Biotechnology	16/02/2016	B.Sc. II sem
Physics, Computer science, Economics, IT, Comp. Application, Chemistry, Ph. Chemistry, Statistics	16/02/2016	B.Sc. IV &VI sem
English, Hindi ,Environment	17/02/2016	B.Sc. IV sem
English, Hindi ,Computer	17/02/2016	B.Sc. VI sem
English, Hindi , Entrepreneurship	18/02/2016	B.Sc. II sem

M.Sc. के CCE विभागाध्यक्ष सुविधानुसार सितम्बर 2016 माह में सम्पन करले ।

सम्बन्धित विद्यार्थी अधिक जानकारी के लिये **विषय के विभागाध्यक्ष** से संपर्क करें।
स्ववित्तीय पाठ्यक्रमों के विद्यार्थी अपने विषय के समन्वयक से संपक करें।

डॉ. श्रीमती पिंकी द्विवेदी
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सतत् व्यापक मूल्यांकन

03/03/2017

बी. एससी. द्वितीय, चतुर्थ एवं षष्टम सेमेस्टर के समस्त विधार्थियों हेतु **CCE** दिनांक 21/03/2017 से 24/03/2017 को नियमित कालखण्ड में अध्यापन के दौरान निम्नलिखित कार्यक्रम अनुसार संपन्न होगा–

विषय	दिनांक	कक्षा
Hindi, English, Entrepreneurship	21/03/2017	B.Sc. IInd Sem.
Physics, Computer Science, Economics, Information Technology, Computer Application, Chemistry, Ph. Chemistry, Statistics	21/03/2017	B.Sc. IVth & VIth Sem.
Zoology, Mathematics, Electronics, Geography, Botany, Geology, Microbiology, Bioinformatics, Biotechnology	22/03/2017	B.Sc. IVth & VIth Sem.
Physics, Computer Science, Economics, Information Technology, Computer Application, Chemistry, Ph. Chemistry, Statistics	23/03/2017	B.Sc. IInd Sem.
Hindi, English, Env. Science	23/03/2017	B.Sc. IVth Sem.
Zoology, Mathematics, Electronics, Geography, Botany, Geology, Microbiology, Bioinformatics, Biotechnology	24/03/2017	B.Sc. IInd Sem.
Hindi, English,Computer	24/03/2017	B.Sc. VIth Sem.

M.Sc. के **CCE** विभागाध्यक्ष सुविधानुसार मार्च – 2017 माह में संपन्न कर लें।

सम्बन्धित विधार्थी अधिक जानकारी के लिये विषय के विभागाध्यक्ष से संपर्क करें।

डॉ. श्रीमती पिंकी द्विवेदी
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सतत् व्यापक मूल्यांकन

26/09/2017

बी.एससी. **प्रथम वर्ष** के समस्त विधार्थियों हेतु **प्रथम प्रश्न पत्र** का **CCE दिनांक 04/10/2017 से 07/10/2017** को नियमित कालखण्ड में अध्यापन के दौरान निम्नलिखित कार्यक्रम अनुसार संपन्न होगा–

विषय	दिनांक
Physics, Computer Science, Economics, Information Technology, Computer Application, Chemistry, Ph. Chemistry, Statistics	04/10/2017
Zoology, Mathematics, Electronics, Geography, Botany, Geology, Microbiology, Bioinformatics, Biotechnology	06/10/2017
Hindi, English, Entrepreneurship	07/10/2017

सम्बन्धित विद्यार्थी अधिक जानकारी के लिये **विषय के विभागाध्यक्ष** से संपर्क करें।

26.9.17

डॉ. श्रीमती पिंकी द्विवेदी
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सतत् व्यापक मूल्यांकन

06/09/2017

बी.एससी. तृतीय एवं पंचम सेमेस्टर के समस्त विधार्थियों हेतु CCE दिनांक 18/09/2017 से 21/09/2017 को नियमित कालखण्ड में अध्यापन के दौरान निम्नलिखित कार्यक्रम अनुसार संपन्न होगा–

विषय	दिनांक	कक्षा
Physics, Computer Science, Economics, Information Technology, Computer Application, Chemistry, Ph. Chemistry, Statistics	18/09/2017	B.Sc. IIIrd Sem.
Zoology, Mathematics, Electronics, Geography, Botany, Geology, Microbiology, Bioinformatics, Biotechnology	18/09/2017	B.Sc. Vth Sem.
Hindi, English, Env. Science	19/09/2017	B.Sc. IIIrd Sem.
Physics, Computer Science, Economics, Information Technology, Computer Application, Chemistry, Ph. Chemistry, Statistics	20/09/2017	B.Sc Vth Sem.
Zoology, Mathematics, Electronics, Geography, Botany, Geology, Microbiology, Bioinformatics, Biotechnology	20/09/2017	B.Sc. IIIrd Sem
Hindi, English,Computer	21/09/2017	B.Sc. Vth Sem.

M.Sc. के CCE विभागाध्यक्ष सुविधानुसार सितम्बर – 2017 माह में संपन्न कर लें। सम्बन्धित विधार्थी अधिक जानकारी के लिये विषय के विभागाध्यक्ष से संपर्क करें।

डॉ. श्रीमती पिंकी द्विवेदी
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डॉ. श्रीमती उषा श्रीवास्तव
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सतत् व्यापक मूल्यांकन

04/01/2018

बी.एससी. **प्रथम वर्ष** के समस्त विद्यार्थियों हेतु **द्वितीय प्रश्न पत्र** का **CCE दिनांक 10/01/2018 से 12/01/2018** को नियमित कालखण्ड में अध्यापन के दौरान निम्नलिखित कार्यक्रम अनुसार संपन्न होगा–

विषय	दिनांक
Hindi, English, Entrepreneurship	10/01/2018
Physics, Computer Science, Economics, Information Technology, Computer Application, Chemistry, Ph. Chemistry, Statistics	11/01/2018
Zoology, Mathematics, Electronics, Geography, Botany, Geology, Microbiology, Bioinformatics, Biotechnology	12/01/2018

सम्बन्धित विद्यार्थी अधिक जानकारी के लिये **विषय के विभागाध्यक्ष** से संपर्क करें।

डॉ. श्रीमती पिंकी द्विवेदी
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डॉ. श्रीमती उषा श्रीवास्तव
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सतत् व्यापक मूल्यांकन 01/03/2018

बी.एससी. **IV एवं VI Sem** के समस्त विद्यार्थियों हेतु **CCE** दिनांक 12/03/2018 से 15/03/2018 को नियमित कालखण्ड में अध्यापन के दौरान निम्नलिखित कार्यक्रम अनुसार संपन्न होंगे –

विषय	दिनांक	कक्षा
Physics, Computer Science, Economics, Information Technology, Computer Application, Chemistry, Ph. Chemistry, Statistics	मार्च 12/03/2018	B.Sc. IV Sem
Zoology, Mathematics, Electronics, Geography, Botany, Geology, Microbiology, Bioinformatics, Biotechnology	मार्च 12/03/2018	B.Sc. VI Sem
Zoology, Mathematics, Electronics, Geography, Botany, Geology, Microbiology, Bioinformatics, Biotechnology	मार्च 13/03/2018	B.Sc. IV Sem
Physics, Computer Science, Economics, Information Technology, Computer Application, Chemistry, Ph. Chemistry, Statistics	मार्च 13/03/2018 मार्च	B.Sc. VI Sem
Hindi, English, Entrepreneurship	14/03/2018	B.Sc. IV Sem
Hindi, English, Entrepreneurship	15/03/2018	B.Sc. VI Sem

M.Sc. के CCE विभागाध्यक्ष सुविधानुसार मार्च–2018 माह में संपन्न कर लें।

सम्बन्धित विद्यार्थी अधिक जानकारी के लिये **विषय के विभागाध्यक्ष** से संपर्क करें।

1.03.18

डॉ. श्रीमती पिंकी द्विवेदी
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सतत् व्यापक मूल्यांकन

19/09/2018

बी.एससी. **V** के समस्त विद्यार्थियों हेतु **CCE** दिनांक 24/09/2018 से 26/09/2018 को नियमित कालखण्ड में अध्यापन के दौरान निम्नलिखित कार्यक्रम अनुसार संपन्न होंगे –

विषय	दिनांक	कक्षा
Physics, Computer Science, Economics, Information Technology, Computer Application, Chemistry, Ph. Chemistry, Statistics	24/09/2018	B.Sc. V Sem
Zoology, Mathematics, Electronics, Geography, Botany, Geology, Microbiology, Bioinformatics, Biotechnology	25/09/2018	B.Sc. V Sem
Hindi, English, Computers (Foundation)	26/09/2018	B.Sc. V Sem

M.Sc. के CCE विभागाध्यक्ष सुविधानुसार सितम्बर–2018 माह में संपन्न कर लें।

सम्बन्धित विद्यार्थी अधिक जानकारी के लिये **विषय के विभागाध्यक्ष** से संपर्क करें।

डॉ. श्रीमती पिंकी द्विवेदी
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डॉ. अर्पण भारद्वाज
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सतत् व्यापक मूल्यांकन 04/10/2018

बी.एससी. **प्रथम** एवं **द्वितीय** वर्ष के समस्त विद्यार्थियों हेतु **CCE I** दिनांक **11/10/2018 से 13/10/2018** को नियमित कालखण्ड में अध्यापन के दौरान निम्नलिखित कार्यक्रम अनुसार संपन्न होंगे –

विषय	दिनांक	कक्षा
Physics, Computer Science, Economics, Information Technology, Computer Application, Chemistry, Ph. Chemistry, Statistics	11/10/2018	B.Sc. I Year
Zoology, Mathematics, Electronics, Geography, Botany, Geology, Microbiology, Bioinformatics, Biotechnology	12/10/2018	B.Sc. I Year
Hindi, English, Entrepreneurship	13/10/2018	B.Sc. I Year
Hindi, English, Environment	11/10/2018	B.Sc. II Year
Physics, Computer Science, Economics, Information Technology, Computer Application, Chemistry, Ph. Chemistry, Statistics	12/10/2018	B.Sc. II Year
Zoology, Mathematics, Electronics, Geography, Botany, Geology, Microbiology, Bioinformatics, Biotechnology	13/10/2018	B.Sc. II Year

सम्बन्धित विद्यार्थी अधिक जानकारी के लिये **विषय के विभागाध्यक्ष** से संपर्क करें।

डॉ. श्रीमती पिंकी द्विवेदी
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डॉ. अर्पण भारद्वाज
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शासकीय माधव विज्ञान महाविद्यालय, उज्जैन

सतत् व्यापक मूल्यांकन 11/01/2019

सूचना

बी.एससी. **प्रथम** एवं **द्वितीय** वर्ष के समस्त विद्यार्थियों हेतु **CCE II** दिनांक **28/01/2019 से 02/02/2019** को निम्नलिखित समय सारणी के अनुसार संपन्न होंगे।

नोटः– इस CCE में प्रत्येक विषय का प्रश्न पत्र दो घण्टे का होगा। विद्यार्थी अधिक जानकारी के लिये विषय के विभागाध्यक्ष से संपर्क करें।

Date	Subject 11:30-1:30PM B.Sc. I Year	Subject 2:30-4:30PM B.Sc. II Year
28.01.2019	Physics/ Botany/ Geology/ Electronics	Zoology/Mathematics/Geography
28.01.2019	Zoology/Mathematics/Geography	Chemistry/Ph.Chemistry
29.01.2019	Chemistry/Ph.Chemistry	English/Hindi
30.01.2019	English/Hindi	Environment
01.02.2019	Computer Science / Economics/ Information Technology/ Computer Application/ Statistics/ Biotechnology/ Microbiology/Bioinformatics	Physics/ Botany/ Geology/ Electronics
02.02.2019	Entrepreneurship	Computer Science / Economics/ Information Technology/ Computer Application/ Statistics/ Biotechnology/ Microbiology/Bioinformatics

मॉडल प्रश्न सम्बधित विभागों के सूचना पटल पर 16.01.2019 तक प्रदर्शित कर दिये जायेगें।

डॉ. श्रीमती पिंकी द्विवेदी
संयोजक, सेमेस्टर प्रकोष्ठ

डॉ. अर्पण भारद्वाज
प्राचार्य

Govt. Madhav Science P.G. College PRINCIPAL Ujjain (M.P.)

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GOVT. MADHAV SCIENCE COLLEGE, UJJAIN

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IN FRONT OF POLYTECHNIC COLLEGE DEWAS ROAD, UJJAIN

शासकीय माधव विज्ञान महाविद्यालय, उज्जैन

सतत् व्यापक मूल्यांकन

03/04/2019

बी.एससी. **VI** के समस्त विद्यार्थियों हेतु **CCE** दिनांक 09/04/2019 से 11/04/2019 को नियमित कालखण्ड में अध्यापन के दौरान निम्नलिखित कार्यक्रम अनुसार संपन्न होंगे –

विषय	दिनांक	कक्षा
Physics, Computer Science, Economics, Information Technology, Computer Application, Chemistry, Ph. Chemistry, Statistics	09/04/2019	**B.Sc. VI Sem**
Zoology, Mathematics, Electronics, Geography, Botany, Geology, Microbiology, Bioinformatics, Biotechnology	10/04/2019	**B.Sc. VI Sem**
Hindi, English, Computers (Foundation)	11/04/2019	**B.Sc. VI Sem**

M.Sc. के CCE विभागाध्यक्ष सुविधानुसार अप्रेल–2019 माह में संपन्न कर लें।

सम्बन्धित विद्यार्थी अधिक जानकारी के लिये विषय के विभागाध्यक्ष से संपर्क करें।

डॉ. श्रीमती पिंकी द्विवेदी
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सतत् व्यापक मूल्यांकन

04/11/2019

बी.एससी. **प्रथम, द्वितीय** एवं **तृतीय** वर्ष के समस्त विद्यार्थियों हेतु **CCE I** दिनांक **13/11/2019** से **16/11/2019** को नियमित कालखण्ड में अध्यापन के दौरान निम्नलिखित कार्यक्रम अनुसार संपन्न होंगे –

Date	B.Sc. I Year	B.Sc. II Year	B.Sc. III Year
13.11.2019	Physics/ Botany/ Geology	Zoology/ Mathematics/ Geography/ English/Hindi/ Environment	Chemistry/ Economics/ Statistics
14.11.2019	Zoology/ Mathematics/ Geography	Chemistry/ Economics/ Statistics	Physics/ Botany/ Geology
15.11.2019	Chemistry/ Economics/ Statistics	Physics/ Botany/ Geology	Zoology/ Mathematics/ Geography/ English/Hindi/ Computer
16.11.2019	English/Hindi Entrepreneurship	-	-

सम्बन्धित विद्यार्थी अधिक जानकारी के लिये **विषय के विभागाध्यक्ष** से संपर्क करें।

डॉ. श्रीमती पिंकी द्विवेदी
संयोजक
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शासकीय माधव विज्ञान महाविद्यालय, उज्जैन

सतत् व्यापक मूल्यांकन 24/01/2020

बी.एससी. प्रथम एवं द्वितीय वर्ष के समस्त विद्यार्थियों हेतु CCE II दिनांक 01/02/2020 से 05/02/2020 को निम्नलिखित कार्यक्रम अनुसार संपन्न होंगे –

Date	B.Sc. I Year 11:00-1:00PM	B.Sc. II Year 2:00-4:00
01.02.2020	Physics/ Electronics, Botany/ Microbiology, Bioinformatics, Geology	English / Hindi
03.02.2020	English/Hindi Entrepreneurship	Chemistry/ Ph. Chemistry, Economics, Statistics
04.02.2020	Zoology/ Biotechnology Mathematics/ Computer Science, Information Technology, Computer Application, Geography	Physics/ Electronics, Botany/ Microbiology, Bioinformatics, Geology
05.02.2020	Chemistry/ Ph. Chemistry, Economics, Statistics	Zoology/ Biotechnology Mathematics/ Computer Science, Information Technology, Computer Application, Geography

सम्बन्धित विद्यार्थी अधिक जानकारी के लिये विषय के विभागाध्यक्ष से संपर्क करें।

डॉ. श्रीमती पिंकी द्विवेदी
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सतत् व्यापक मूल्यांकन

24/01/2020

बी.एससी. तृतीय वर्ष के समस्त विद्यार्थियों हेतु **CCE II** दिनांक **08 / 02 / 2020** से **12 / 02 / 2020** को निम्नलिखित कार्यक्रम अनुसार संपन्न होंगे –

Date	B.Sc. III Year 11:00-1:00PM
08.02.2020	**Chemistry/ Ph. Chemistry, Economics, Statistics**
10.02.2020	**Physics/ Electronics, Botany/ Microbiology, Bioinformatics, Geology**
11.02.2020	English/Hindi Computer Science
12.02.2020	**Zoology/ Biotechnology** Mathematics/ Computer Science, Information Technology, Computer Application, Geography

सम्बन्धित विद्यार्थी अधिक जानकारी के लिये विषय के विभागाध्यक्ष से संपर्क करें।

डॉ. श्रीमती पिंकी द्विवेदी
संयोजक
सेमेस्टर प्रकोष्ठ

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Date:02/09//2015

CCE ODD SEMESTER I III & V 2015-16 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in chemistry, zoology, Botany, Mathematics & Physics wings for detailed CCE timetable in Hindi,
First CCE ……14th& 15th September (Modes as declared by respective departments)
Second CCE …….. 29th September (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……23rd & 24th September
Second CCE……5th October 2015
Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

For Grievance Redressal related to the Internal examination contact

INTERNAL EXAMINATION GRIEVANCE REDRESSAL BOARD

- Dr. Pinky Dwivedi (Coordinator CCE Core Committee) • Dr. Shehla Ishaque (Member CCE Core Committee)

For Instructions in Hindi contact respective departments.

Dr. Usha Shrivastava
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Date:02/09//2015

CCE ODD SEMESTER I III & V 2015-16 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in wings for detailed CCE timetable in Hindi,
First CCE ……14th& 15th September (Modes as declared by respective departments)
Second CCE …….. 20th September (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……22rd & 26th September
Second CCE……29th September 2015
Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

For Grievance Redressal related to the Internal examination contact

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Date:25/01//2016

CCE ODD SEMESTER I III & V 2015-16 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in zoology, Electronic, Mathematics & Physics wings for detailed CCE timetable in Hindi,
First CCE ……15th& 18th February (Modes as declared by respective departments)
Second CCE …….. 25th February (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……20rd & 24th February
Second CCE……6th MARCH 2016

Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

For Grievance Redressal related to the Internal examination contact

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Date:25/01//2016

CCE ODD SEMESTER I III & V 2015-16 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in chemistry, zoology, Botany, Mathematics & Physics wings for detailed CCE timetable in Hindi, First CCE ……15&18th February (Modes as declared by respective departments)
Second CCE …….21th February (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……28th February
Second CCE……03rd March 2016

Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

For Grievance Redressal related to the Internal examination contact

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Date:25/01//2016

CCE ODD SEMESTER I III & V 2015-16 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in chemistry, zoology, Botany, Mathematics & Physics wings for detailed CCE timetable in Hindi,
First CCE 15&18th February (Modes as declared by respective departments)
Second CCE …….26th February (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……28th February
Second CCE……03rd March 2016

Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

For Grievance Redressal related to the Internal examination contact

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Date:25/01//2016

CCE ODD SEMESTER I III & V 2015-16 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in English, Hindi, Entrepreneurship wings for detailed CCE timetable in Hindi,
First CCE ……15&18th February February (Modes as declared by respective departments)
Second CCE …….27h February (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……07th March
Second CCE……12rd March 2016

Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

For Grievance Redressal related to the Internal examination contact

INTERNAL EXAMINATION GRIEVANCE REDRESSAL BOARD

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Date:28/02//2017

CCE ODD SEMESTER I III & V 2016-17 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in chemistry, Economics, Statistics, Pharma Chemistry, Mathematics & Physics Computer Science, IT wings for detailed CCE timetable in Hindi,
First CCE ……21&.24 March (Modes as declared by respective departments)
Second CCE …….28th March (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……27th March
Second CCE……05rd April 2016

Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

For Grievance Redressal related to the Internal examination contact

INTERNAL EXAMINATION GRIEVANCE REDRESSAL BOARD

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Date:28/02//2017

CCE ODD SEMESTER I III & V 2016-17 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Zoology, Mathematics, Electronic, Geography, Botany, Geology, Microbiology, Bioinformatics, Biotechnology, wings for detailed CCE timetable in Hindi, First CCE 21&.24 March March (Modes as declared by respective departments)
Second CCE …….29th March (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……25th March
Second CCE……30th April 2016

Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

For Grievance Redressal related to the Internal examination contact **INTERNAL EXAMINATION GRIEVANCE REDRESSAL BOARD**

- Dr. Pinky Dwivedi (Coordinator CCE Core Committee) • Dr. Shehla Ishaque (Member CCE Core Committee)

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Date:28/02//2017

CCE ODD SEMESTER I III & V 2016-17 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Zoology, Mathematics, Electronic, Geography, Botany, Geology, Microbiology, Bioinformatics, Biotechnology, IT, wings for detailed CCE timetable in Hindi,
First CCE 21&.24 March (Modes as declared by respective departments)
Second CCE …….30th March (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……26th March
Second CCE……31th March 2016

Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

For Grievance Redressal related to the Internal examination contact

INTERNAL EXAMINATION GRIEVANCE REDRESSAL BOARD

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Date:28/02//2017

CCE ODD SEMESTER I III & V 2016-17 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Hindi, English, Env. Science wings for detailed CCE timetable in Hindi,
First CCE …….21&.24 March (Modes as declared by respective departments)

Second CCE …….29th March (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……25th March
Second CCE……30th March 2016

Note*****
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Date:25/02/2016

CCE ODD SEMESTER I III & V 2016-17 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in English, Hindi, Computer wings for detailed CCE timetable in Hindi,
First CCE …….21&.24 March February (Modes as declared by respective departments)
Second CCE …….29th February (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……25th March
Second CCE……30rd March 2016

Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

For Grievance Redressal related to the Internal examination contact

INTERNAL EXAMINATION GRIEVANCE REDRESSAL BOARD

- Dr. Pinky Dwivedi (Coordinator CCE Core Committee) • Dr. Shehla Ishaque (Member CCE Core Committee)

For Instructions in Hindi contact respective departments.

Dr. Usha Shrivastava
Principal
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Signature Not Verified
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GOVT. MADHAV SCIENCE COLLEGE, UJJAIN

A GRADE ACCREDITED THROUGH NAAC
DST-FIST SUPPORTED
AFFILIATED TO VIKRAM UNIVERSTY UJJAIN
IN FRONT OF POLYTECHNIC COLLEGE DEWAS ROAD, UJJAIN

Date:20/09//2017

CCE ODD SEMESTER I III & V 2017-18 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Zoology, Mathematics, Electronic, Geography, Botany, Geology, Microbiology, Bioinformatics, Biotechnology, wings for detailed CCE timetable in Hindi,
First CCE ……04th &07 October (Modes as declared by respective departments)
Second CCE …….14th October (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……07th October
Second CCE……15th October 2017

Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

For Grievance Redressal related to the Internal examination contact

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Date:20/09//2017

CCE ODD SEMESTER I III & V 2017-18 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Zoology, Mathematics, Electronic, Geography, Botany, Geology, Microbiology, Bioinformatics, Biotechnology wings for detailed CCE timetable in Hindi,
First CCE ……04th &07 October (Modes as declared by respective departments)
Second CCE …….15th October (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……12th October
Second CCE……18th October 2017

Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

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Date:20/09//2017

CCE ODD SEMESTER I III & V 2017-18 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Hindi, English, Entrepreneurship wings for detailed CCE timetable in Hindi, First CCE ……04th &07 October (Modes as declared by respective departments)
Second CCE …….17th October (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……07th October
Second CCE……15th October 2017

Note*****

For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

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Date:29/12//2017

CCE ODD SEMESTER I III & V 2017-18 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Hindi, English, Entrepreneurship wings for detailed CCE timetable in Hindi,
First CCE ……10&12 th January (Modes as declared by respective departments)
Second CCE …….20 January (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……16 January
Second CCE……24 January 2018

Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

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Date: 29/12//2017

CCE ODD SEMESTER I III & V 2017-18 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Zoology, Computer Science , Electronic, IT, CA, Chemistry, Pharma Chemistry wings for detailed CCE timetable in Hindi,
First CCE ……10&12 January (Modes as declared by respective departments)
Second CCE …….20 January (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……22 January
Second CCE……28 January 2018

Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

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Date:29/12//2017

CCE ODD SEMESTER I III & V 2017-18 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Zoology , Mathematics, Botany, Bioinformatics, Microbiology, Biotechnology wings for detailed CCE timetable in Hindi,

First CCE ……10th& 12th January (Modes as declared by respective departments)

Second CCE …….18 January (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……15 January
Second CCE……22 January 2018

Note*****
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Date:25/02//2018

CCE ODD SEMESTER I III & V 2017-18 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Physics, Computer, IT, Economics, Chemistry, Pharma chemistry, Statistics wings for detailed CCE timetable in Hindi,
First CCE ……12&15 March (Modes as declared by respective departments)
Second CCE …….20 January (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……16 January
Second CCE……24 January 2018

Note*****
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Date:25/02//2018

CCE ODD SEMESTER I III & V 2017-18 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Mathematics, Botany, Bioinformatics, Microbiology, Biotechnology wings for detailed CCE timetable in Hindi,
First CCE …….12&15 March (Modes as declared by respective departments)
Second CCE …….20 March (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

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First CCE……16 March
Second CCE……24 March 2018

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Date:25/02//2018

CCE ODD SEMESTER I III & V 2017-18 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Hindi, English, Entrepreneur Ship wings for detailed CCE timetable in Hindi,
First CCE ……12 &15 March (Modes as declared by respective departments)
Second CCE …….20 March (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……16 March
Second CCE……24 March 2018

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Date:15/09//2018

CCE ODD SEMESTER I III & V 2018-19 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Mathematics, Botany, Bioinformatics, Microbiology, Biotechnology wings for detailed CCE timetable in Hindi,
First CCE …….24&25 September (Modes as declared by respective departments)
Second CCE …….29 September (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……26 September
Second CCE……30 September 2018

Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

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INTERNAL EXAMINATION GRIEVANCE REDRESSAL BOARD

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Date:15/09//2018

CCE ODD SEMESTER I III & V 2018-19 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in ,Zoology Mathematics, Botany, Bioinformatics, Microbiology, Biotechnology wings for detailed CCE timetable in Hindi,
First CCE ……24&25 September (Modes as declared by respective departments)
Second CCE ……28 September (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……26 September
Second CCE……29September 2018
Note*****
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For Grievance Redressal related to the Internal examination contact

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Date:15/09//2018

CCE ODD SEMESTER I III & V 2018-19 Detailed CCE SCHEDULE

Students are advised to visit College notice boards Hindi, English , Computer (Foundation) wings for detailed CCE timetable in Hindi,
First CCE …….24&25 September (Modes as declared by respective departments)
Second CCE …….29 September (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……26 September
Second CCE……30 September 2018
Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

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Date:05/01//2019

CCE ODD SEMESTER I III & V 2018-19 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Physics , Botany, Geology, Electronic wings for detailed CCE timetable in Hindi,
First CCE ……28 January &02 February (Modes as declared by respective departments)
Second CCE …….08 February (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……07 February
Second CCE……15 February 2019

Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

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Date:05/01//2019

CCE ODD SEMESTER I III & V 2018-19
Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Zoology, Geography , Mathematic wings for detailed CCE timetable in Hindi,
First CCE …….28 January &02 February (Modes as declared by respective departments)
Second CCE …….08 February (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……06 February Second
CCE……10 February 2019
Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

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Date:05/01//2019

CCE ODD SEMESTER I III & V 2018-19 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in English, Hindi wings for detailed CCE timetable in Hindi,
First CCE …….28 January &02 February (Modes as declared by respective departments)
Second CCE ……10 February (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……07 February Second
CCE……16 February 2019
Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

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Date:05/01//2019

CCE ODD SEMESTER I III & V 2018-19 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in CS , IT, Computer Application, Chemistry wings for detailed CCE timetable in Hindi,
First CCE ……28 January &02 February (Modes as declared by respective departments)
Second CCE ……09 February (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……06February Second
CCE……18 February 2019
Note*****
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Date:05/01//2019

CCE ODD SEMESTER I III & V 2018-19 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Entrepreneurship wings for detailed CCE timetable in Hindi,
First CCE ……28 January &02 February (Modes as declared by respective departments)
Second CCE ……06 February (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE……09 February Second
CCE……15 February 2019
Note*****
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Date:01/04//2019

CCE ODD SEMESTER I III & V 2018-19 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in CS , IT, Computer Application, Chemistry wings for detailed CCE timetable in Hindi,
First CCE ……09 &11 April (Modes as declared by respective departments)
Second CCE ……18April (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances) No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE…… 15 April
Second CCE……20 April 2019

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- Dr. Shehla Ishaque (Member CCE Core Committee) For Instructions in Hindi contact respective departments.

Dr. Arpan Bhardwaj
Principal
Govt. Madhav Science

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ARPAN BHARDWAJ
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AJ11@GMAIL.COM,

ज्ञानं परमं बलम्

GOVT. MADHAV SCIENCE COLLEGE, UJJAIN

A GRADE ACCREDITED THROUGH NAAC
DST-FIST SUPPORTED
AFFILIATED TO VIKRAM UNIVERSTY UJJAIN
IN FRONT OF POLYTECHNIC COLLEGE DEWAS ROAD, UJJAIN

Date:01/04//2019

CCE ODD SEMESTER I III & V 2018-19 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in CS , IT, Computer Application, Chemistry wings for detailed CCE timetable in Hindi,
First CCE ……09 &11 April (Modes as declared by respective departments)
Second CCE ……18April (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE…… 15 April
Second CCE……20 April 2019

Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

For Grievance Redressal related to the Internal examination contact

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Date:01/04//2019

CCE ODD SEMESTER I III & V 2018-19 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Zoology , Mathematics , Computer, Biotechnology, Microbiology, Bioinformatics wings for detailed CCE timetable in Hindi,

First CCE ……09 &11 April (Modes as declared by respective departments)

Second CCE ……20 April (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted

Students are advised to check their evaluated answer sheets on

First CCE…… 18 April Second

CCE……25 April 2019

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CCE ODD SEMESTER I III & V 2018-19 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Hindi, English, Entrepreneurship wings for detailed CCE timetable in Hindi,
First CCE ……09 &11 April (Modes as declared by respective departments)
Second CCE ……18 April (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE…… 16 April
Second CCE……25 April 2019

Note*****
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Date:01/11//2019

CCE ODD SEMESTER I III & V 2019-20 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Zoology , Mathematics , Computer, Biotechnology, Microbiology, Bioinformatics wings for detailed CCE timetable in Hindi,
First CCE ……13 &16 November Modes as declared by respective departments)
Second CCE ……22 November (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE…… 18 November
Second CCE……25 November 2019
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Date:01/11//2019

CCE ODD SEMESTER I III & V 2019-20 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Zoology , Mathematics , Geography wings for detailed CCE timetable in Hindi,
First CCE ……13 &16 November Modes as declared by respective departments)
Second CCE ……25 November (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)
No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE…… 15 November
Second CCE……28 November 2019
Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

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Date:01/11//2019

CCE ODD SEMESTER I III & V 2019-20 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Zoology , Mathematics , Computer, Biotechnology, Microbiology, Bioinformatics wings for detailed CCE timetable in Hindi,
First CCE ……13 &16 November Modes as declared by respective departments)
Second CCE ……22 November (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE…… 18 November
Second CCE……25 November 2019

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Date:01/11//2019

CCE ODD SEMESTER I III & V 2019-20 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Hindi, English , Entrepreneurship wings for detailed CCE timetable in Hindi,
First CCE ……13 &16 November Modes as declared by respective departments)
Second CCE ……25 November (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE…… 22 November
Second CCE……28 November 2019

Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

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INTERNAL EXAMINATION GRIEVANCE REDRESSAL BOARD

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IN FRONT OF POLYTECHNIC COLLEGE DEWAS ROAD, UJJAIN

Date:20/01//2020

CCE ODD SEMESTER I III & V 2019-20 Detailed CCE SCHEDULE

Students are advised to visit College notice boards in Hindi, English , Entrepreneurship wings for detailed CCE timetable in Hindi,
First CCE ……08 &12 February Modes as declared by respective departments)
Second CCE ……20 February (For all students who missed the first due to 1. They were representing college in some event 2. Medical Reasons3. Any other unforeseen circumstances)

No third CCE will be conducted
Students are advised to check their evaluated answer sheets on
First CCE…… 22 February
Second CCE……28 February 2020

Note*****
For students appearing in CCE 2 seek valid permission from the principal of the college. The application should be forwarded by the Head of the department.

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A GRADE ACCREDITED THROUGH NAACDST-FIST

COLLEGE

SAMPLE PROOF FOR CCE MODE

Signature Not Verified

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OFFICE OF THE PRINCIPAL GOVT. MADHAV SCIENCE P.G. COLLEGE UJJAIN M.P.

A GRADE ACCREDITED THROUGH NAAC

DST-FIST COLLEGE

Chemistry

S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Sem	2015-16	Chemistry	**Subjective long test**
2.	B.Sc. 2nd Sem	2015-16	Chemistry	Written Test
3.	B.Sc. 3rd Sem	2015-16	Chemistry	Assignments
4.	B.Sc. 4rt Sem	2015-16	Chemistry	Assignments
5.	B.Sc. 5th Sem	2015-16	Chemistry	PPT Presentation
6.	B.Sc. 6th Sem	2015-16	Chemistry	GROUP POSTER
7.	M.Sc. 1st Sem	2015-16	Inorganic Chemistry 401	Poster Presentation
			Organic Chemistry 402	Multiple Choice Questions
			Group theory and Spectroscopy 404:	Spectroscopic case studies
			Physical Chemistry403	Semi Surprise Analytical Test
			Mathematics for chemists 405 a :	Problem Solving
			Biology for Chemists 405 b:	Charts and Presentation
8.	M.Sc. 2nd Sem	2015-16	Inorganic Chemistry 406	Poster Presentation/ Presentation
			Organic Chemistry 407	Single Topic Compendium formation
			Physical Chemistry Paper 408	Objective Questionnaire & Question bank formation
			Spectroscopy II Paper 409	Spectroscopic e-compendium
			Computer for chemistry 410:	Assignments
9.	M.Sc. 3rd Sem	2015-16	Applications of Spectroscopy 501:	Research Paper Writing
			Photo chemistry 502 :	Long Answer tests
			Environmental Chemistry 503:	Assignments (Peer evaluated assignments)
			Organtransition Metal chemistry 504:	Open Book Test
			Polymers 505:	Charts Presentation/Charts

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DST-FIST COLLEGE

10	M.Sc. 4th Sem	2015-16	Applications of Spectroscopy 511:	Bibliography
			Solid State Chemistry 512:	Crystal Presentation
			Biochemistry 513:	Mind Mapping Giving solution
			Analytical Chemistry 516:	Assignments (Problem Bank)
			Medicinal Chemistry 518:	Surprise Long answer Test

S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Sem	2016-17	Chemistry	Written Test
2.	B.Sc. 2nd Sem	2016-17	Chemistry	Written Test
3.	B.Sc. 3rd Sem	2016-17	Chemistry	Assignments
4.	B.Sc. 4rt Sem	2016-17	Chemistry	Assignments
5.	B.Sc. 5th Sem	2016-17	Chemistry	PPT Presentation
6.	B.Sc. 6th Sem	2016-17	Chemistry	GROUP POSTER
7.	M.Sc. 1st Sem	2016-17	Inorganic Chemistry 401	Poster Presentation
8.			Organic Chemistry 402	Multiple Choice Questions
9.			Physical Chemistry403	Semi Surprise Analytical Test
10.			Group theory and Spectroscopy 404:	Spectroscopic case studies
11.			Mathematics for chemists 405 a :	Problem Solving
12.			Biology for Chemists 405 b:	Charts and Presentation
13.	M.Sc. 2nd Sem	2016-17	Inorganic Chemistry 406	Poster Presentation/ Presentation
14.			Organic Chemistry 407	Single Topic Compendium formation
15.			Physical Chemistry Paper 408	Open Book & Assignment
16.			Spectroscopy II Paper 409	Research paper

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DST-FIST COLLEGE

17.			Computer for chemistry 410:	Bibliography of Search Engines and content Search though assigned search engines
18.	M.Sc. 3rd Sem	2016-17	Applications of Spectroscopy 501:	Research Paper Writing
19.			Photo chemistry 502:	Long Answer
20.			Environmental Chemistry 503:	Assignments (Peer evaluated assignments)
21.			Organtransition Metal chemistry 504:	Open Book Test
22.			Polymers 505:	Charts Presentation e Charts
23.	M.Sc. 4th Sem	2016-17	Applications of Spectroscopy 511:	Bibliography
24.			Solid State Chemistry 512:	Crystal Presentation
25.			Biochemistry 513:	Mind Mapping Giving solution
26.			Analytical Chemistry 516:	Assignments (Problem Bank)
27.			Medicinal Chemistry 518:	Semi Surprise Test

S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Year	2017-18	Chemistry	Written Test
2.	B.Sc. 3rd Sem	2017-18	Chemistry	Assignments
3.	B.Sc. 4rt Sem	2017-18	Chemistry	Learner Centric Group Activity Question
4.	B.Sc. 5th Sem	2017-18	Chemistry	PPT Presentation
5.	B.Sc. 6th Sem	2017-18	Chemistry	GROUP POSTER
6.	M.Sc. 1st Sem	2017-18	Inorganic Chemistry 401	Poster Presentation
			Organic Chemistry 402	Multiple Choice Questions
			Physical Chemistry403	Semi Surprise Analytical Test
			Group theory and Spectroscopy 404:	Semi surprise test
			Mathematics for	Problem Solving

OFFICE OF THE PRINCIPAL GOVT. MADHAV SCIENCE P.G. COLLEGE UJJAIN M.P.

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DST-FIST COLLEGE

			chemists 405 a:	
			Biology for Chemists 405 b:	Charts and Presentation
7.	M.Sc. 2nd Sem	2017-18	Inorganic Chemistry 406:	Poster Presentation/ Presentation
			Organic Chemistry 407:	Single Topic Compendium formation
			Physical Chemistry Paper 408:	Knowledge based Closed Book long answer type test Learner centricity: 25% only
			Spectroscopy II Paper 409:	Research paper
			Computer for chemistry 410:	Bibliography of Search Engines and content Search though assigned search engines
8.	M.Sc. 3rd Sem	2017-18	Applications of Spectroscopy 501:	GROUP POSTER SUBMISSION FOLLOWED BY POSTER PRESENTATION
			Photo chemistry 502 :	PPT
			Environmental Chemistry 503:	Assignments (Peer evaluated assignments)
			Organ transition Metal chemistry 504:	Open Book Test
			Polymers 505:	Charts Presentation e Charts
9.	M.Sc. 4th Sem	2017-18	Applications of Spectroscopy 511:	Bibliography
			Solid State Chemistry 512:	Crystal Presentation
			Biochemistry 513:	Mind Mapping Giving solution
			Analytical Chemistry 516:	Assignments (Problem Bank)
			Medicinal Chemistry 518:	Semi Surprise Test

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S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Year	2018-19	Chemistry	Written Test
2.	B.Sc. 2nd Year	2018-19	Chemistry	Assignments
3.	B.Sc. 5th Sem	2018-19	Chemistry	Assignments
4.	B.Sc. 6th Sem	2018-19	Chemistry	Question Paper Setting Question Bank
5.	M.Sc. 1st Sem	2018-19	Inorganic Chemistry 401	Poster Presentation
			Organic Chemistry 402	Multiple Choice Questions
			Physical Chemistry403	Semi Surprise Analytical Test
			Group theory and Spectroscopy 404:	Spectroscopic case studies
			Mathematics for chemists 405 a :	Problem Solving
			Biology for Chemists 405 b:	Charts and Presentation
6.	M.Sc. 2nd Sem	2018-19	Inorganic Chemistry 406	Poster Presentation/ Presentation
			Organic Chemistry 407	Single Topic Compendium formation
			Physical Chemistry Paper 408	Open Book & Assignment
			Spectroscopy II Paper 409	Compendium preparation & Subjective test
			Computer for chemistry 410:	Assignments
7.	M.Sc. 3rd Sem	2018-19	Applications of Spectroscopy 501:	GROUP POSTER SUBMISSION FOLLOWED BY POSTER PRESENTATION
			Photo chemistry 502 :	PPT
			Environmental Chemistry 503:	Assignments (Peer evaluated assignments)
			Organtransition Metal chemistry 504:	Open Book Test
			Polymers 505:	Charts Presentation e Charts
8.	M.Sc. 4th Sem	2018-19	Applications of Spectroscopy 511:	Bibliography
			Solid State Chemistry 512:	Crystal Presentation

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			Biochemistry 513:	Mind Mapping Giving solution
			Analytical Chemistry 516:	Assignments (Problem Bank)
			Medicinal Chemistry 518:	Semi Surprise Test

S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Year	2019-20	Chemistry	Mock Test Long Test
2.	B.Sc. 2nd Year	2019-20	Chemistry	Mock Test
3.	B.Sc. 3rd Year	2019-20	Chemistry	Mock Test
4.	M.Sc. 1st Sem	2019-20	Inorganic Chemistry 401	Poster Presentation
			Organic Chemistry 402	Multiple Choice Questions
			Physical Chemistry403	Semi Surprise Analytical Test
			Group theory and Spectroscopy 404:	SPECTROSCOPIC CASE STUDY OF "ABC" MOLECULE & Open book test & POSTER PRESENTATION
			Mathematics for chemists 405 a :	Problem Solving
			Biology for Chemists 405 b:	Charts and Presentation
5.	M.Sc. 2nd Sem	2019-20	Inorganic Chemistry 406	Poster Presentation/ Presentation
			Organic Chemistry 407	Single Topic Compendium formation
			Physical Chemistry Paper 408	Open Book & Assignment
			Spectroscopy II Paper 409	Compendium preparation & Subjective test
			Computer for chemistry 410:	Bibliography of Search Engines and content Search though assigned search engines
6.	M.Sc. 3rd Sem	2019-20	Applications of Spectroscopy 501:	SPECTROSCOPIC CASE STUDY OF "ABC" MOLECULE & POSTER PRESENTATION

			Photo chemistry 502:	Long Answer
			Environmental Chemistry 503:	Assignments (Peer evaluated assignments)
			Organtransition Metal chemistry 504:	Open Book Test
			Polymers 505:	Charts Presentation e Charts
7.	M.Sc. 4th Sem	2019-20	Applications of Spectroscopy 511:	Bibliography
			Solid State Chemistry 512:	Crystal Presentation
			Biochemistry 513:	Mind Mapping Giving solution
			Analytical Chemistry 516:	Assignments (Problem Bank)
			Medicinal Chemistry 518:	Semi Surprise Test

DEPARTMENT OF CHEMISTRY, GOVT. MADHAV SCIENCE P.G.COLLEGE UJJAIN

LIST OF STUDENTS FOR CCE

INSTRUCTOR : DR. KALPANA SINGH

Class: B.Sc. VI semester **CCE MODE….. GROUP POSTER**

SESSION 2015-16 **Size: 86 cm. X 53 cm.**

Poster Back ground: Dark Red/Black/ Dark Blue

Sr. No.	Name of the Student	Batch	Title of the Poster
1.	Aarti Makwana Aashiya Nagori Anita Malviya Anjali Soni Anshu Joshi Archana Devda Balmukund Dangi Deepak Sharma Dharmendra Gopal Hari singh Dangi Kamlesh Panchal Kavita Makwana Kiran Kumavat Lokendra Singh Rajput Mahendra Singh Rajput	B_1	***Structure of Proteins Primary, Secondary and Quaternary Structures***
2	Monika Upadhyay Monika Vasnik Mukesh Chouhan Omprakash Parasia Pankaj Choudhary Pawan Singh Rajput Pooja Choudhary Pratiksha Rathod Pritam Sindal Rahul Malviya Rajesh Dangi Ramesh Mewada Ramkanya Rathi Ranjana Muwel Ravindra Malviya Ritu Sharma	B_1	***Functions of DNA and RNA***

3	Ruchi Rathod Sanjay Panwar Shubham Dodiya Shubham Verma Shweta Kushwaha Vidit Yadav Vijay Ganguli Vikas Rathod Vinod Choudhary Vishakha Mandloi Vishnu Prasad Prashansa Neema Deepak Sitpara Shuresh Bhagirath Rajendra Suryawanshi Bablu Dangi Anurag Vaid	B_1	***Constituents of Nucleic Acids***
4.	Archana Katara Abhishek Chodiya Ajay Sharma Akash Patidar Arjun Bagwan Avinash Baghel Bahadur Singh Bane Singh Bhavesh Chouhan Deepak Golwana Dharam Singh Karada Dharam Pal Dilip Tomar Divya Jog Govind Prasad Carpenter Harish Kumar	B_2	***Cleansing action of Soap***
5	Hemant Parmar Hemant Solanki Jagdish Alawa Jitendra Jat Jitendra Verma Jyoti Bisht Jyoti Verma Kailash Nandeda Kajal Neema Kapil Lakwal	B_2	***Applications of Grignard Reagents***

	Kshitiz Mishra Mamta Muvel Mamta Parmar Man singh Bamniya Mohd.Farman Mohd. Mohsin Ram Singh Chouhan		
6.	Mukesh Tahed Namita Malviya Narendra Banihar Pankaj Darji Pankaj Mandor Pankaj Patidar Pankaj Sharma Pooja Chouhan Pooja parihar Prasanna Nigam Pushpendra Singh Panwar Rahul Ajmera Mohmd. Rafiq Khan Rajesh Rathod Rakesh Mehar Sunil Kumar Malviya	B_2	***Chemical Shift and spin spin interactions***
7.	Sanjay Panwar Seemab Khan Shivani Niboriya Shivani Sharma Suruchi Modi Swapnil Nigam Vajeeha Fatema Vika Bamniya Pawan Chaukhatiya Sajanlal Parmar Kiran Meena Prashant Bhilala Prem Narayan Jyoti Kanel	$\mathbf{B_2}$	**Modes of Vibrations in IR Spectrum**
8.	Adarsh Jadav Aishwary Bhatt Akhilesh Nagora Aman Soni Anand Prajapat Anil Malviya Anish Pal	M_1	***Orgel Diagram***

	Anmol Joshi ArchanaChiloriya Arjun Lavvanshi Arpit Patidar Arun Bablu Jatav Bal Chand Rathore Bharat Parihar		
9.	Bhavesh Upadhyay Bhumika Ramdasi Chetna Singh Deepak Sharma Deepak Soni Deepak Thorecha Deepak Varshi Dheeraj Patidar Dhruv Jain Ghanshyam Gehlot Govind Govind Malviya Govind Panchrangiya Heena Khan Hemraj Malviya	M_1	***Raman Spectrum and Polarizability Ellipsoid***
10	Jasmat Tomar Jaspal Singh Anjana Jitendra Soni Kalpana Parmar Kartik Verma Kavita Baghel Kishan Sagitra Krishna Kumar Soni Kuldeep Bhati Lalu Prasad Lokesh Rajoriya Madhav Rathore Madhavi Chouhan Mahendra Singh Mahesh Kumar Prajapati Mandakini Kaurav	M_1	***1H NMR***
11.	Manish Kumar Manoj Jangle Mansi Triparhee Mayank Raikwar Meghali Jambulkar Murlidhar Kavriya	M_1	***Adsorption Isothers***

	Naziya Pathan Nidhi Dubey Nishant Tiwari Nitesh Solanki Pankaj Rathore Parul Sharma Pawan Patidar Pawan Prakash Sagit		
12	Pravin Mehar Preeti Shukla Prince Malviya Priya Panwar Rahul Rahul Bhatodara Rahul Chouhan Rahul R. Solanki Rahul Solanki Rahul Vaghela Rajat Singh Sendhav Ram Gopal Meda Ramchander Panwar Ram Dayal Nagar Ram Lakhan Rathore Rashmi Malviya Ravi Vishvakarma Saad Saxena	M_1	***BET Model and various BET Isotherms***
13.	Sakshi Shukla Santosh Solanki Sanyukta Vyas Shahrukh Mansoori Sheikh Faizan Shivam Gehlot Shrey Pareekh Shruti Sugandhi Shubham Rathore Shubham Suryavanshi Som Raj Singh Tanwar Subhash Anjana Sunil Kapadia Sunil Pal	M_1	***Molecule as Rigid Rotar***
14.	Surbhi Goyal Suresh Dangi	M_1	***Anharmonicity in Infra red***

	Tarun Carpenter Umesh Rathore Vijay Ghungharwal Vijendra Gehlot Vikas Panchal Vinod Rathore Vishvjeet Singh Shekhawat Vivek Dewada Yashee Upadhyay Yashwant Patidar Avadhesh Patidar Aayush Gupta Rakesh Dangi Mukesh Kumar Dangi Rohit Maru.		***Spectrum***

15. Periodic Table (Ex Students)

Shahbaj Ahmed

Doulat Ram

Vijay Kanesh

Kunwar Singh

Vaibhav Khamora

Kavita Mansuria

Madhuri Nagare

Sonali Rathore

Damini Malviya

Pre eti Soni

Poonam Nirmal

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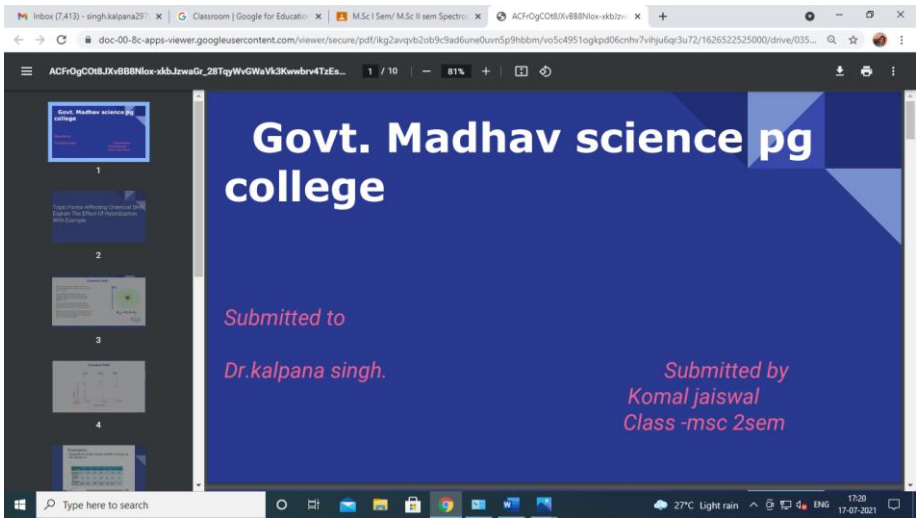
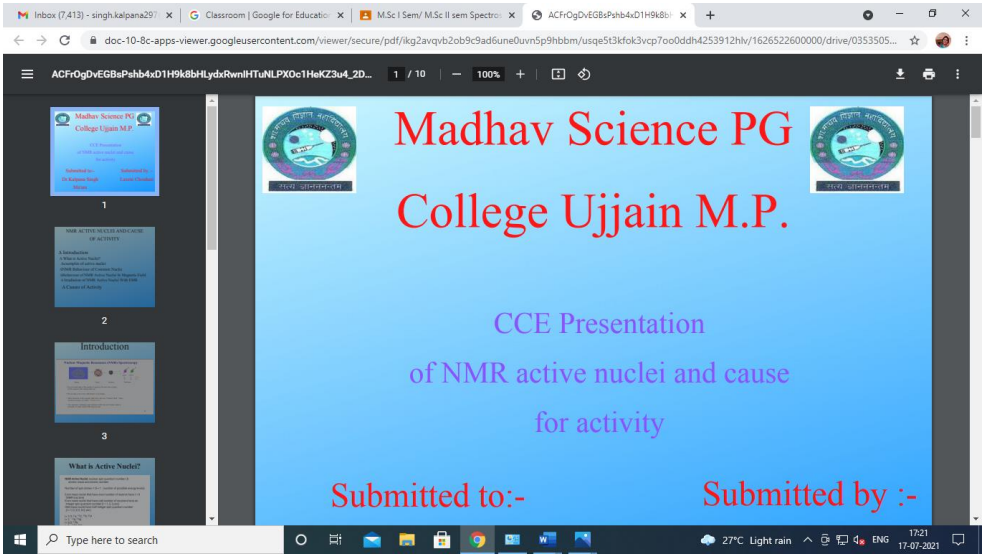
A GRADE ACCREDITED THROUGH NAACDST-FIST COLLEGE

SAMPLE POWER POINT PRESENTATIONS AS CCE MODE





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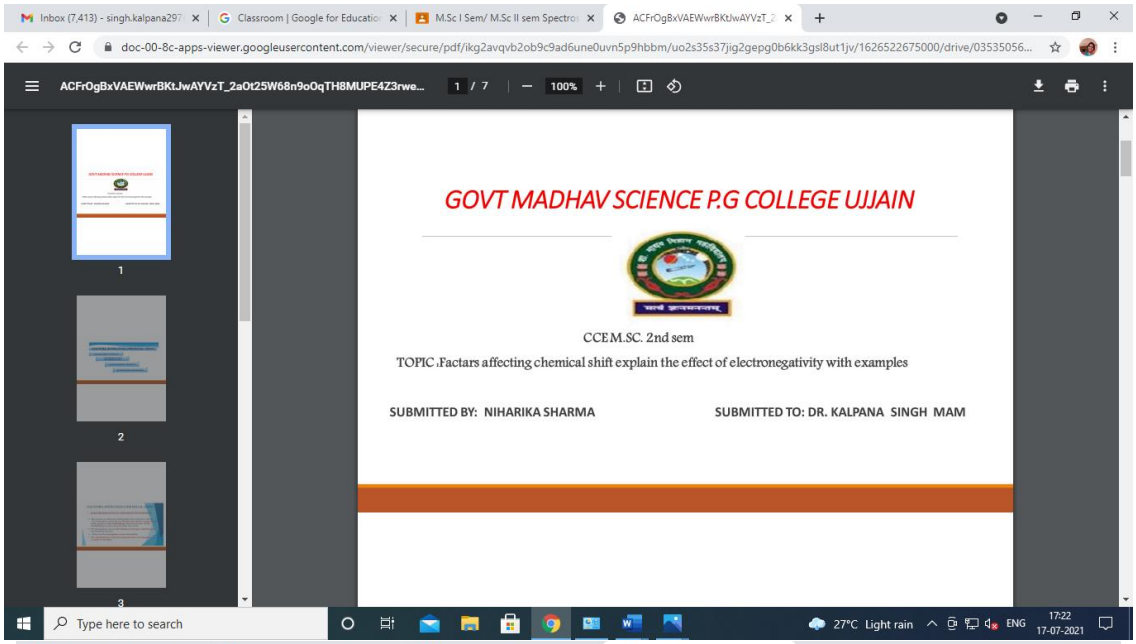
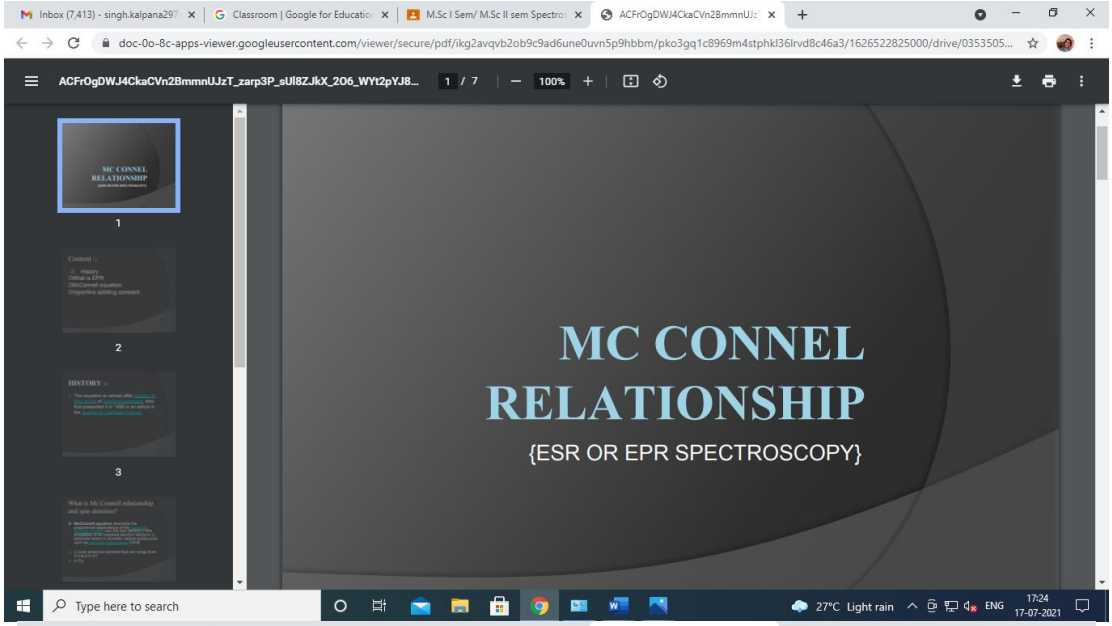
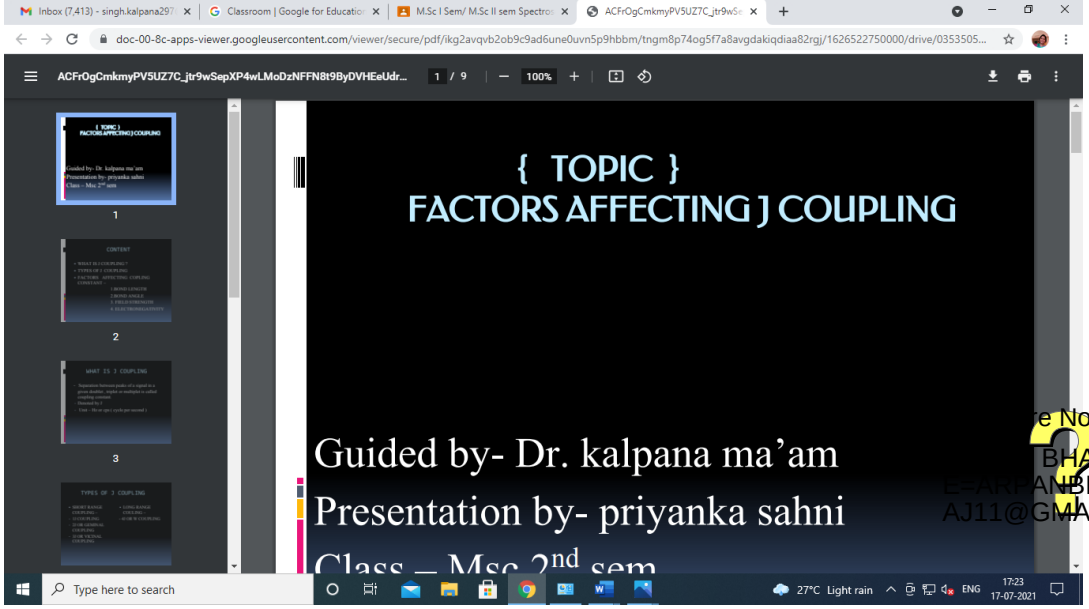
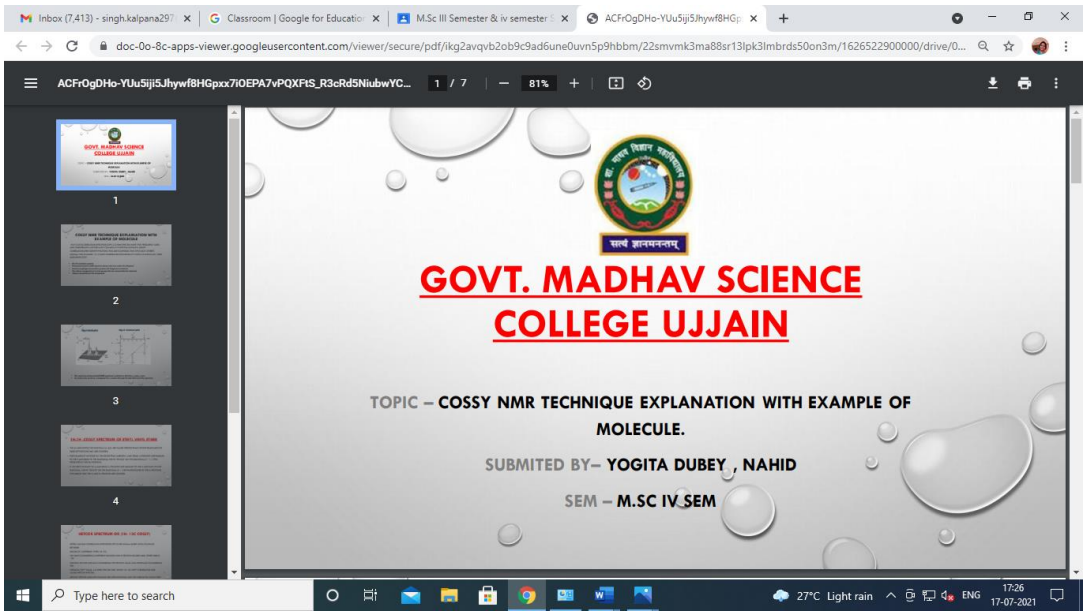
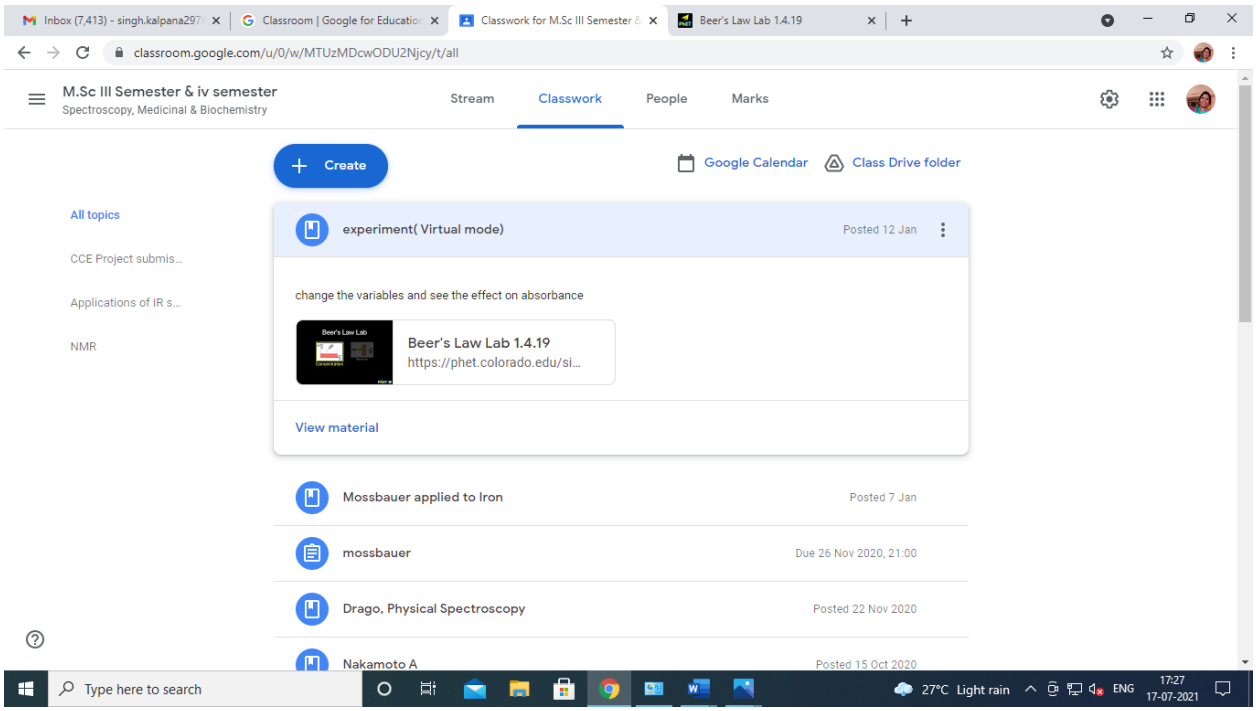
ARPAN BHARDWAJ
E=ARPANBHARDWAJ11@GMAIL.COM,











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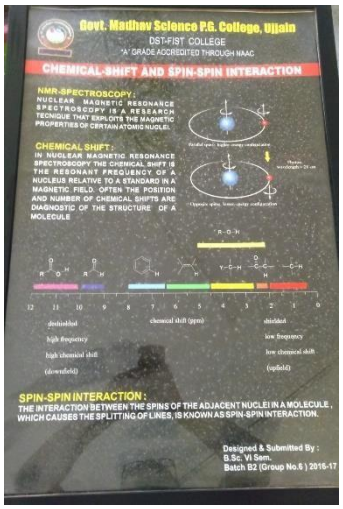
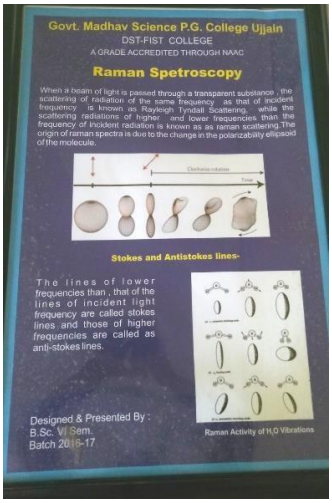
A GRADE ACCREDITED THROUGH NAAC

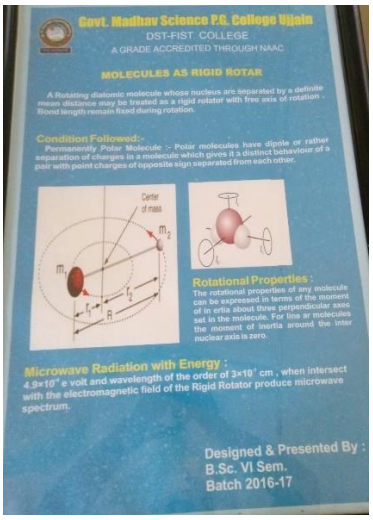
DST-FIST COLLEGE

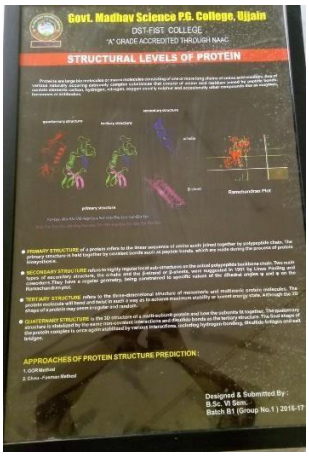
Sample CCE

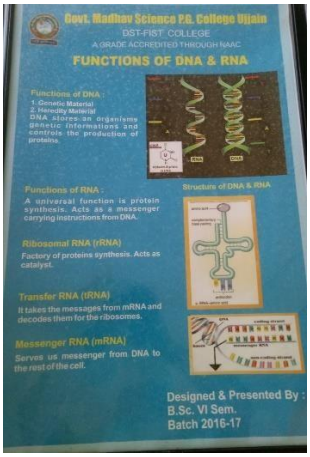
Mode : Poster Presentation

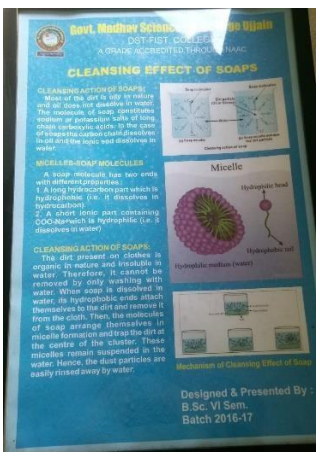


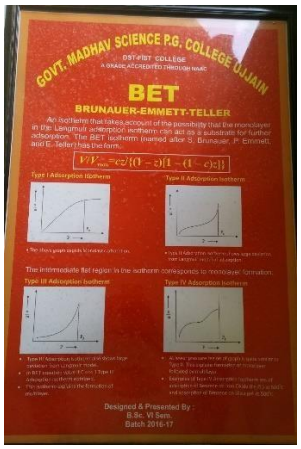












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DST-FIST COLLEGE

Mode : Subjective long test

Session: 2019-20

INORGANIC CHEMISTRY

1. what is valence band theory (VBT) write its rules, utility & limitations?
2. what are semiconductors? describe P-type & n- type semi-conductors?
3. what is lattice energy? how can it be determined by Born –Haber's process?
4. explain physical and chemical properties of group15 elements?

ORGANIC CHEMISTRY

1. what are conjugated dienes write methods & preparation?
2. Write two method of preparation of alkynes?
3. Explain mechanism of elimination reaction of alkyl halides?
4. what do you mean by isomerism? discuss its various type? And describe in detail.

Physical Chemistry

1. what is radioactivity? explain natural and artificial radioactivity.
2. explain the various application of radioactivity?
3. what do you understand by first order reaction? Derive mathematical expression for rate constant for first order reaction what is specific reaction rate?
4. Explain the Le chatelier's principle and explain its applications.
5. state and explain chemical equilibrium explain factors affecting chemical equilibrium?

SCANNED ANSWER SHEET

Physical Chemistry

Ques) what is radioactivity? Explain Natural and Artificial radioactivity

Ans → Francis Physicist Henry Becquerel observed that Uranium and its compound spontaneously emitted contain invisible rays which affected photographic plate, in the dark and are able to penetrate solid matter ionise gases and produces luminosity in substance like zinc sulphide and barium platinocyanide. He called it as radioactive rays. The substance which possessed the property or emitting these radioactive rays was said to be radioactive and the phenomenon was called radioactivity.

⇒ Natural Radioactivity & Radio active Radiations.

The nature of the Radiations emitted by radioactive elements was investigated by Rutherford in 1904. By passing a strong electric filled they separated them in different kinds as shown.

Emission and of separation or Radioactive radiations

The rays which are deflected towards the negative plate are positively charged and are known as α rays, or alpha particles as these, infact, consist merely helium nuclei.

InORGaNIC Chemistry...

Ques → what is valance band theory (VBT) write its rules, utility & limitations?

Ans → This theory was developed by Heitler and London in 1927 and later extended by Pauling and Slater in 1931. According to them a covalent bond result when two orbitals containing one e^- or opposite spin overlaps and lead to pairing of the electrons.

Lets consider bond formation in H_2 molecule. It has two H atoms, contains one unpaired electron with opposite spin when two atoms are apart. There is no interaction btwn them. When they come closer to each other there is interactⁿ btwn them. Hence energy decreases the attractive forces between them for nucleus of one atom & electrons of other atoms are [illegible].

where.

ΔE = 434.3 KJ / mol

H – H energy curve for atom having opposite spin (↑↓)

d_0 → Bond length.

ΔE → Bond energy.

Important postulates of VBT

1) The covalent bond is formed by overlapping of atomic orbitals.

2) Atomic atoms contains not parallel & opposite spin e^-

ORGANIC Chemistry...

Q.1) what are conjugated dienes Write methods of preparatⁿ

Ans. Dienes which contains alternate single & double bonds. eg. Beta 1-3 diene and isoprene.

→ Methods of formation

(1) By dehydration of Acids
when suitable di ol is heated in presence of acid, catalyst then dienes are formed.

$CH_3CHOCH_2CH_2OH \xrightarrow{HA} CH_2=CH-CH=CH_2$
Buta 1,3-diene.

(2) By catalytic dehydrogenation
In petro chemical industry Buta-dienes are obtained by catalytic dehydrogenation. of n-butan, but 1-ene or But 2-ene.

$CH_3CH_2CH_2CH_3 \xrightarrow{Cr_2O_3} H_2C=CH-CH=CH_2$

$CH_3CH=CHCH_3$ OR $CH_3CH_2CH=CH_2$ → $H_2C=CH-CH$

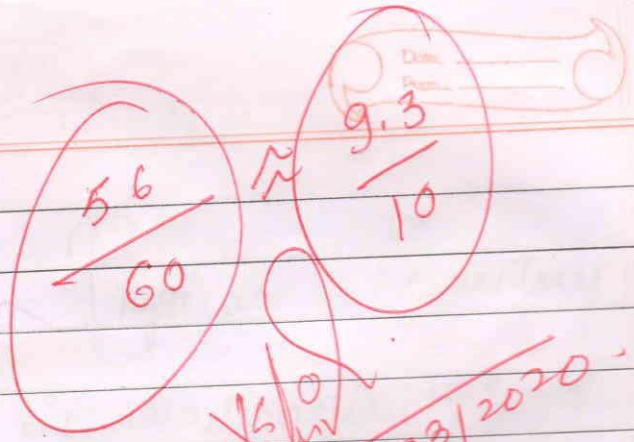
Q-2) Write two methods of preparation of alkyne?

Ans → By the action of alcoholic KOH and mono-halogen substitution product of olefine molecules halogen acids are eliminated and alkynes are obtained.

$CH_3-CHBr-CH_2Br + 2KOH \rightarrow CH_3C\equiv CH + 2KBr + 2H_2O$
Prop 1-yne

$CH_2=CClCH_3 + KOH(l) \rightarrow CH\equiv CCH_3 + KCl + H_2O$
2 chloro Prop 1-ene.

$CH_3-CHBr-CH_2Br + 2NaNH_2 \xrightarrow{liq. NH_3} CH_3-C\equiv CH + 2NaBr + 2NH_3$



Name- Aprena Tiwari
Subj. - Chemistry
Year - 1st year
Father's Name - Arvind Tiwari
Subj Date - 04/03/20

marking done out of 60
Equated to 10.

Physical Chemistry

Ques⇒ what is radioactivity? Explain Natural and Artificial radioactivity.

Ans⇒ Francis Physicist Henry Becquerel observed that Uranium and its compound spontaneously emitted certain invisible rays which affected photographic plate, in the dark and are able to penetrate solid matter ionise gases and produces luminosity in substance like zinc sulphide and barium platinocyanide. He called it as radioactive rays. The substance which possessed the property of emitting these radioctive rays was said to be radioactive and the phenomenon was called radioacitivity.

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The nature of the Radiations emitted by radioactive elements was investigated by Rutherford in 1904. By passing a strong electric filled they separated them in different kinds as shown.

→ Emission and separation of Radioactive radiations

The rays which are deflected towards the negative plate are positively charged and are known as α rays or alpha particles as these, infact, consist merely helium nuclei.

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Lets consider bond formation in H_2 molecule. It has two H atoms, contains one unpaired electron with opposite spin when two atoms are apart. There is no interaction btwn them. When they come closer to each other there is "interact" btwn them. Hence energy decreases the attractive forces between them for nucleus of one atom

electrons of other atoms are vice versa.

→ where.

$\Delta E = 434.3$ KJ / mol.

H – H energy curve for atom having opposite spin (↑↓

d_0 → Bond length.

ΔE → Bond energy.

→ Important postulates of V.B

(1) The covalent bond is formed by overlapping of atomic orbitals.

(2) Atomic atoms contains parallel & opposite

ORGANIC Chemistry

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Ans. Dienes which contains alternate single & double bonds. eg. Beta 1-3 diene and isoprene.

→ Methods of formations

(1) By dehydration of Acids
When suitable di ol is heated in presence of acid, catalyst then dienes are formed.

$CH_3CHOCH_2CH_2OH \xrightarrow{HA} CH_2=CH-CH=$
Buta 1,3-diene

(2) By catalytic dehydrogenation
In petro chemical industries Buta-dienes are obtained by catalytic dehydrogenation of n-butan ; not 1-ene or But-2-ene

$CH_3CH_2CH_2CH_3 \xrightarrow{Cr_2O_3} H_2C=CH-CH=CH_2$

$CH_3CH=CHCH_3$ OR $CH_3CH_2CH=CH_2$ $\longrightarrow H_2C=CH-CH$

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Prop 1-yne

$CH_2=CClCH_3 + KOH(o) \rightarrow CH=CCH_2 + KCl + H_2O$

2 Chloro Prop 1-ene.

$CH_3-CHBr-CH_2Br + 2NaNH_2$

Liq. NH3 $CH_3-C\equiv CH + 2NaBr + 2NH_3$

DEPARTMENT OF CHEMISTRY
GOVT. MADHAV SCIENCE PG COLLEGE UJJAIN

COURSE INSTRUCTOR: DR. KALPANA VIRENDRA SINGH
PROFESSOR CHEMISTRY

CCE DISTRIBUTION M.Sc.II SEMESTER SESSION 2018-19

Mode: Compendium preparation

Evaluation and Submission of e content : 15/05/2019

Final publication of e content:20/05/2019

Examination : 24/05/2019

UNIT I Contributors: Vaidehi Vyas, Mamta Deshmukh,Pooja Nandi, Manisha katariya, Vijay Parasiya

Nuclear Magnetic Resonance Spectroscopy, Nuclear Spin, Nuclear Resonance, Saturation, Shielding of Magnetic Nuclei. ……. Vaidehi Vyas

Chemical Shift and it's measurements, factors influencing chemical shift …… Mamta Deshmukh

De shielding , Spin Spin interactions, J Coupling , factors influencing J Coupling…….Pooja Nandi

Classification (AXB, AMX, ABC, A2B2 etc.) spin decoupling, basic ideas about instrument….Manisha Katariya

NMR studies of nuclei other than proton 13C, 19F and 31 P, FTNMR and its advantages…….Vijay Parasiya

UNIT II

General concept of Nuclear Quadrupole Resonance spectroscopy…….Omprakash Parasiya

Quadrupole Nuclei and quadrupole moment……Rohit Kumavat

Electric field gradient in NQR……Priya Patidar

Coupling constant in NQR, Splitting in NQR……Mahendra Vishwkarma

Applications in NQR……..Rajat Dube

UNIT III

Basic Principles of Electron spin resonance Spectroscopy

Zero field splitting and Kramer's degeneracy

g value and factors inflecting g values, Gyromagnetic ratio

Isotropic and Anisotropic hyperfine coupling constant

Spin Hamiltonian, spin densities and MC Connell relationships, measurement techniques, Applications of ESR.

UNIT IV

Braggs condition in X-ray diffraction , Miller indices.

X-ray structural analysis of crystals through Laue method, Bragg method, Debye Scherer method

Index reflections, identification of unit cells from systematic absences in diffraction pattern

Structure of simple lattices and X-ray intensities

Structure factor and it's relation to intensity and electron density, phase problem

Description of the procedure for an X-ray structure analysis, absolute configuration of molecules

UNIT V

Electron Diffraction, Scattering Intensity vs Scattering angle

Wierl equation, measurement technique

Elucidation of structure of simple gas phase molecules

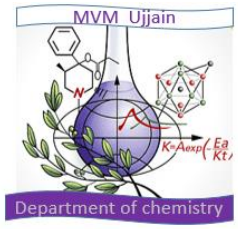
Low energy electrondiffraction and structure of surfaces

Neutron Diffraction, scattering of neutrons by solids measurement techniques

Elucidation of structure of magnetically ordered unit cells

CCE Question Paper M.Sc. I Semester. Paper code 404

Marks to be moderated as per total of 10 **mode: Semi surprise test,** **closed book Time60 minutes**



FIRST ATTEMPT 2017-18

DEPARTMENT OF CHEMISTRY GOVT. MADHAV SCIENCE PG COLLEGE UJJAIN M.P.
SESSION 2017-18

Note: Relevant Chapters Microwave spectroscopy(slight input from Electronic spectoscopy).

Please note that $B=\frac{h}{8IC\pi^2}$ when units are in cm^{-1}; and $B=\frac{h}{8I\pi^2}$ when units are expressed in Hz.

Q1. For a diatomic molecule in a $\sum^{1}$ electronic state, we observe a microwave transition from J = 1 to J = 2 in the presence of an electric field. How many lines will appear in the spectrum?

Q2.Calculate the bond length of $C^{12}O^{16}$ using B= 1.9302 cm^{-1} and the reduced mass is μ= 1.14x 10^{-26}

Q3. Identify the molecules that will exhibit a pure rotational absorption microwave spectrum:
N_2O,NO_2 , $CClF_3$,NF_3 ,SF_6,CH_4, CO_2

Q4. Calculate the frequency of the J = 3 to J = 4 transition in the pure rotational absorption spectrum of $N^{14}O^{16}$.The equilibrium bond length is 115 pm. Assume no centrifugal distortion. The mass of a nitrogen atom is 14.003 amu; the mass of an oxygen atom is 15.995 amu ; and the conversion factor is 1.6605 X 10^{-27} kg/amu .

Q5. What information about the molecular geometry for N_2O can be determined from knowing that a pure rotational absorption spectrum is observed for this molecule?

Q 6.The moment of inertia about an axis perpendicular to the principal axis forNH_3 is 2.82 X $10^{-47}kg$ m^2 . There are different types of rigid rotors: linear, spherical top, prolate symmetric top, oblate symmetric top, asymmetric top. Which type of rotor is NH_3? Calculate the separation (expressed in cm^{-1}) of the pure rotational spectrum lines forNH_3? .
Hint: The moment of inertia about the principal axis is given by $I_{II} = 2m_HR^2(1 - COS\theta)$ *, where the mass of a hydrogen atom =* m_H *=1.6735 X* $10^{-27}kg$ *; the N-H bond length R =1.014 X* $10^{-10}m$ *; and the bond angle is 106.78°*
Explain different types of rigid rotors

Note: Relevant Chapter **Vibrating Diatomic Molecules and Infa red spectroscopy**

Q7. Which of the following vibrational transitions will be observed for a diatomic molecule (treated as a harmonic oscillator): v = 1 to v = 3; v = 2 to v = 3; v = 5 to v = 4.
Secondly treat the same molecule as anharmonic oscillator. Give complete diagrammatic representation

Q8. What is rotational vibrational spectroscopy, give their integration and formation of spectral lines.

Q9.Draw Morse Potential energy diagram and give its significance.

Note: Relevant Chapter **Raman Spectroscopy**
Q10. Sulphur hexafluoride (SF6) is Centro symmetric. Discuss the advantages of Raman Spectrum taking its example

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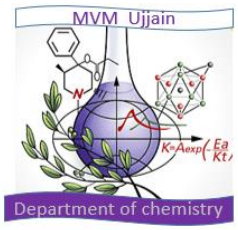
Teacher Incharge: Dr. Kalpana Virendra Singh
Professor Chemistry.
Difficulty Level: Moderate
Expected average Score as per difficulty level 6/10

ATTEMPT 2



DEPARTMENT OF CHEMISTRY GOVT. MADHAV SCIENCE PG COLLEGE UJJAIN M.P.
SESSION 2017-18
CCE Class M.Sc I Semester
Paper Code 404
COURSE INSTRUCTOR : DR. KALPANA SINGH

Each Question carries the marks written in front of it. Final marks will be calculated out of 10 after moderation

Q1. Infrared radiations are largely thermal energy and produces molecular vibrations. Discuss the formation of IR Spectrum taking into account active bonds, how does the intensity of spectral lines decided, give factors responsible for it. How does harmonicity and anharmonicity appears giving rise to fundamental lines as well as overtones. ……..12

Q2. Symmetry and shape of the molecules play decisive role in the spectral behavior of molecules, discuss in detail in which class do BCl_3 and CH_3I fall . validate your answer with the justification and drawings……..08

Q3.Bond length in 12_C14_N is 117pm and force constant is 1630Nm^{-1}. Predict the rotational vibrational spectrum of 12_C14_N……..10

CCE : MCH 501 APPLICATIONS OF SPECTROSCOPY

CLASS M.SC III SEMESTER

MODE: GROUP POSTER SUBMISSION FOLLOWED BY POSTER PRESENTATION

Submit Soft copy followed by presentation Final submission in the form of Poster

SOFT COPY SUBMISSION: 23/11/2019

GROUP 1. Presentation 25/11/2019 Time: 2.40 p.m. Room no 18

1.Arvind D. Rathore, 2.Arvind. H. Rathore 3.Damodar Bansiya 4.Alkar Singh 5.Gopal Sharma 6. Mahendra Vishwakarma

Mossbauer spectroscopic case study of Fe^{+2} and Fe^{+3} compounds

GROUP 2. Presentation 25/11/2019 Time: 3.00 p.m. Room no 18

1.Rajat Kumar Dubey 2.Preeti Jat 3.Rohit Kumavat 4.Shanu Tiwari 5. .Manisha Katariya

Mossbauer spectroscopic case study of Sn^{+2} and Sn^{+4} compounds

GROUP 3. Presentation 25/11/2019 Time: 3.20 p.m. Room no 18

1.Shree Vallabh Bansiya 2.Sunil Kapadiya 3. Varsha Bairagi 4. Supriya Jain 5.Anita Gamad

Spectroscopic case study of Diketonato Complexes special emphasis on vibrational Spectra

GROUP 4. Presentation 25/11/2019 Time: 3.40 p.m. Room no 18

1.Vaidehi Vyas 2. Mamta Deshmukh 3. Pooja Chandel 4. Vijay Parasiya 5. Omprakash Parasiya 6.Pooja Nandi

Spectroscopic case study of EDTA special emphasis on vibrational Spectra

Final submission : 26/11/2019 2.40 p.m.

Poster size 6x3 Feet

Dr. Kalpana Singh

DEPARTMENT OF CHEMISTRY

GOVT. MADHAV SCIENCE PG COLLEGE UJJAIN M.P.

CCE QUESTION PAPER MCH 409 SPECTROSCOPY

MODE : SUBJECTIVE TEST

COURSE INSTRUCTOR: DR. KALPANA SINGH

CLASS: M.SC.II SEMESTER SESSION 2018-19 TIME ALLOTTED: 90 MINUTES

Q1. Number of signals in proton NMR Spectrum depends upon the set of equivalent protons in a molecule. Discuss "are magnetically equivalent protons chemically equivalent also" validate your point giving an insight into the individual equivalence.

Q2. What is Chemical Shift, give reasons for it. TMS is used as reference why? Give formula for calculation of Chemical shift, what are the units used to express Chemical Shift (δ)

Q3.What are Nuclear Quadrupole transitions, discuss with reference to Axially Symmetric and Axially non symmetric molecules

(Hint: discuss taking into account the energy equation depending upon electric field gradient)

Q4.Interpretation of ESR Spectra is made in terms of Spin Hamiltonian, what is it? Calculate the spin Hamiltonian for Hydrogen atom.

Q5.Concomitant splitting of electron spin energy levels is called as Hyperfine splitting giving rise to hyperfine structures in ESR Spectra, give factors on which magnitude of hyperfine coupling constant a depends , can you have a comparison with Zeeman splitting here.

P.G. DEPARTMENT OF CHEMISTRY GOVT. MADHAV SCIENCE P.G.COLLEGE UJJAIN

M.Sc I semester session 2019-20

CCE I Mode: Open book test MM: 50 Qualifying marks: 17

Moderation on the scale of 10 will be done after CCE IV

UNITS COVERED: UNIT 1 (One question)

UNIT II (Two questions)

Difficulty level: Moderate

Objective: The objective of the CCE is

- To give students a tour from semester examination to CSIR NET JRF Examination
- Every question has two part first part is theoretical dealing with the semester examination , where as the second part is analytical and directly refers to the related questions asked in previous years CSIR / GATE /TFR exams .

Books to be consulted :

- Fundamentals of Molecular Spectroscopy by Colin N. Banwell and Elaine M. McCash
- Physical Methods for Chemists by Russel S. Drago
- Introduction to molecular Spectroscopy by G.M.Barrow
- Chemical applications of group theory by F Albert Cotton

QUESTIONS

1. Discuss in detail Gross and specific selection Rules for Microwave (Rotational Spectroscopy).How are the rotational levels spaced in Rigid Rotators (6)

For a diatomic molecule AB, the energy for the transition from J=0 to J=1 state is $3.9cm^{-1}$. The energy for the rotational transition from J=3 to J=4 state would be

a) $3.9\ cm^{-1}$ $b)\ 7.8cm^{-1}$ $c)\ 11.7cm^{-1}$ $d)\ 15.6cm^{-1}$ { CSIR NET June 2012}

Support your answer with full solution. (10)

2.Discuss the intensity of spectral lines with respect to the population of different rotational levels. Discuss in the light of Maxwell Boltzman distribution law (6)

A homonuclear diatomic molecule is rotating with a frequency ϑ.The temperature at which the population of excited state will will be half of that ground state is given by {8}

a) $\frac{h\vartheta\ ln}{2k\ B}$ $b)\ \frac{h\vartheta}{\ln\ \ 2k\ B}$ $c)\ \frac{ln2}{h\vartheta\ k\ B}$ $d)\ \frac{h\vartheta \log 2}{k\ B}$ { CSIR NET Dec 2015}

Support your answer with full solution

A molecule absorb in green wavelength at 500 nm. At some temperature it is measured that for every 10 molecules in excited state 27 molecules are present in ground state, what is the approximate temperature of the molecule (8)

a) 270 K $b)\ 1000K$ $c)\ 500K$ $d)\ 30{,}000K$ { TIFR}

Support your answer with full solution

3.What are Schonflies and Mulliken Symbols in group Theory. (4)

Write the Mulliken symbols and missing Characters for the Character Table {CSIR NET 2017}

Support your answer with full explanation (8)

	E	$2C_3$	$3\sigma_v$
A	1	1	1
-	-	-	-
E	2	-1	0

Missing Characters

a) $A_1^{/}$ 1 -1 1

b) B_1 1 -1 -1

c) A_2 1 1 -1

d) B_2 1 -1 1

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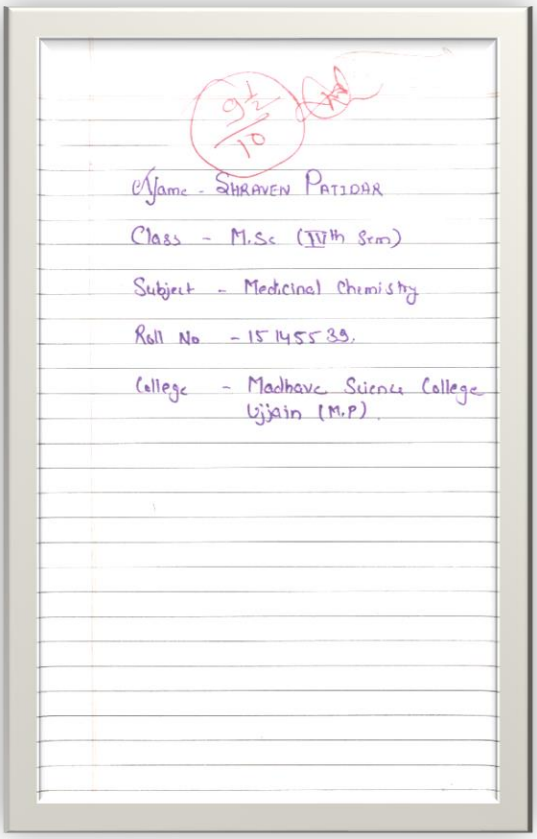


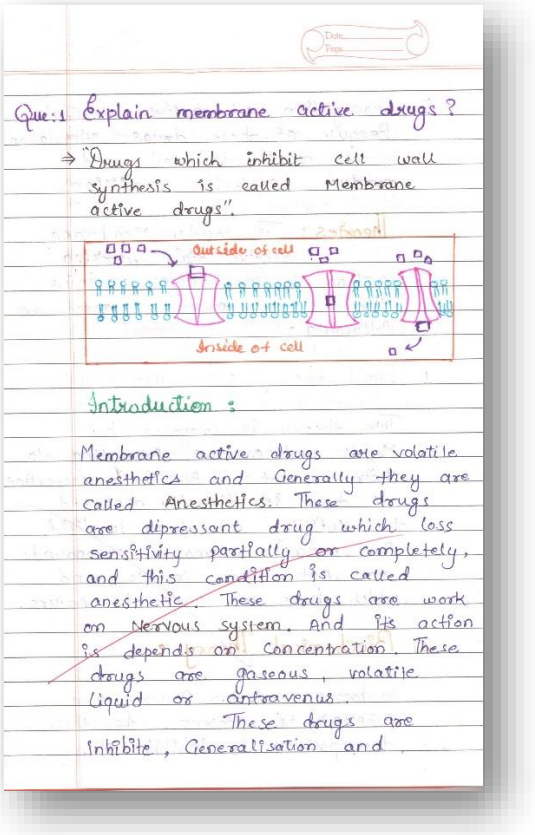
Name - SHRAVEN PATIDAR

Class - M.Sc (IVth Sem)

Subject - Medicinal Chemistry

Roll No - 15145539.

College - Madhav Science College Ujjain (M.P).



Que:1 Explain membrane active drugs ?

⇒ "Drugs which inhibit cell wall synthesis is called Membrane active drugs".

Introduction :

Membrane active drugs are volatile anesthetics and Generally they are called Anesthetics. These drugs are dipressant drug which loss sensitivity partially or completely, and this condition is called anesthetic. These drugs are work on Nervous system. And its action is depends on Concentration. These drugs are gaseous, volatile liquid or intravenus.

These drugs are Inhibite, Generalisation and

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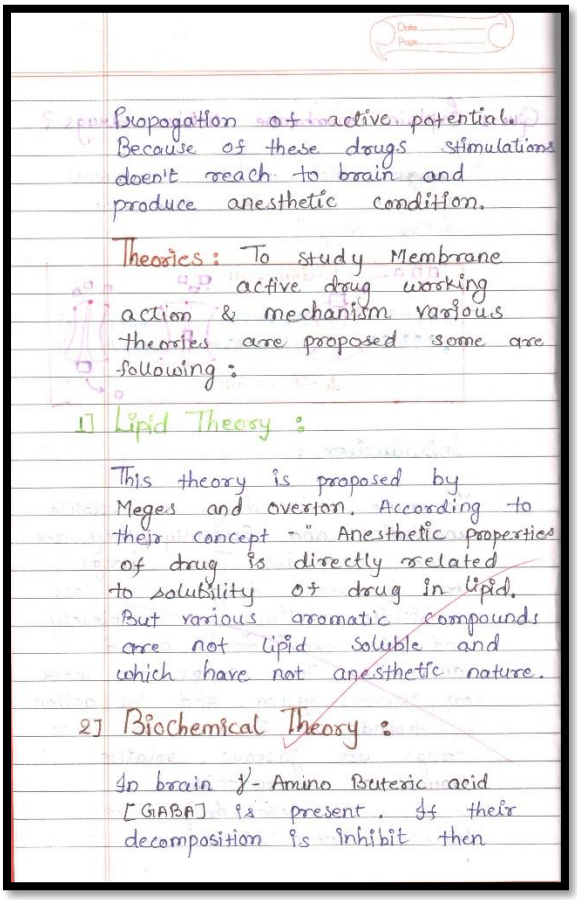


Propagation of active potential. Because of these drugs stimulations doesn't reach to brain and produce anesthetic condition.

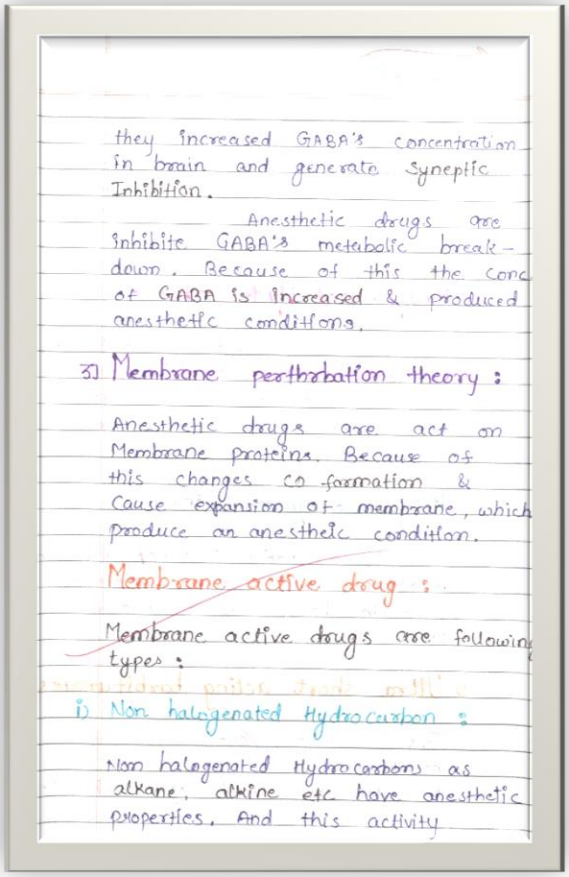
Theories : To study Membrane active drug working action & mechanism various theories are proposed some are following :

1] Lipid Theory :

This theory is proposed by Meges and overton. According to their concept - " Anesthetic properties of drug is directly related to solubility of drug in lipid. But various aromatic compounds are not lipid soluble and which have not anesthetic nature.

2] Biochemical Theory :

In brain γ- Amino Buteric acid [GABA] is present. If their decomposition is inhibit then



they increased GABA's concentration in brain and generate Syneptic Inhibition.

Anesthetic drugs are Inhibite GABA's metabolic break-down. Because of this the conc of GABA is increased & produced anesthetic conditions.

3] Membrane perthrbation theory :

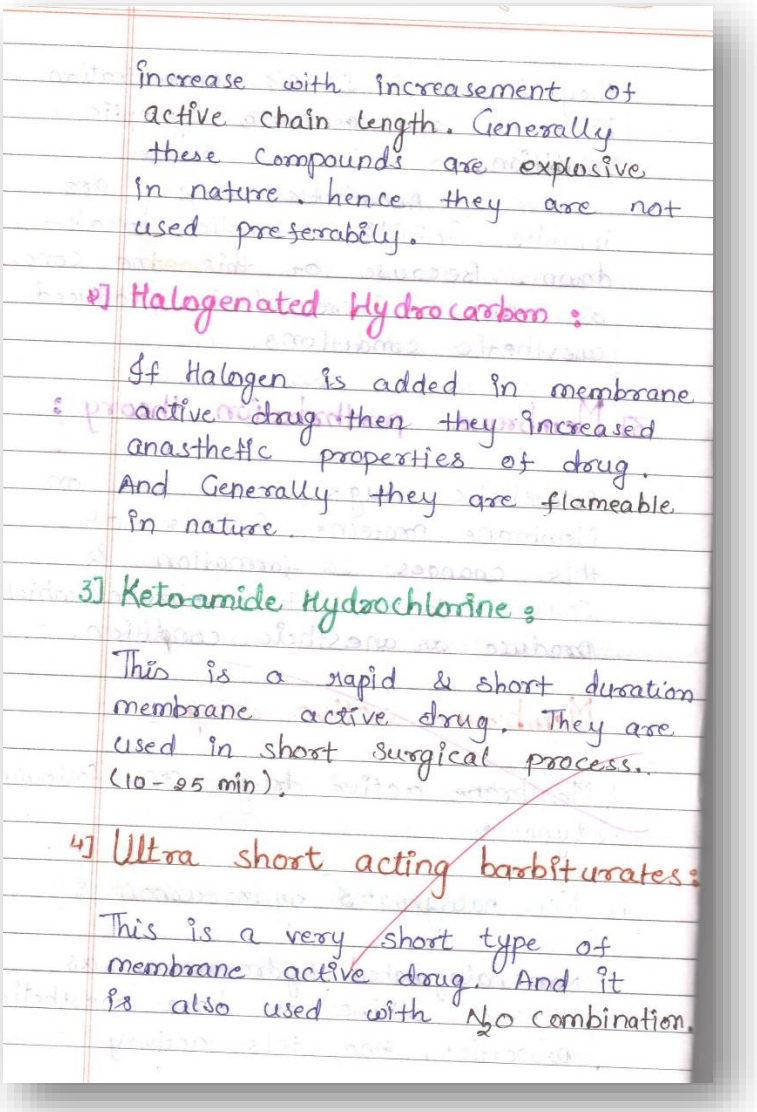
Anesthetic drugs are act on Membrane proteins. Because of this changes co-formation & Cause expansion of membrane, which produce an anesthetic condition.

Membrane active drug :

Membrane active drugs are following types :

i) Non halogenated Hydrocarbon :

Non halogenated Hydrocarbons as alkane, alkine etc. have anesthetic properties. And this activity



Increase with increasement of active chain length. Generally these compounds are explosive in nature. hence they are not used preferably.

2] Halogenated Hydrocarbon :

If Halogen is added in membrane active drug then they increased anasthetic properties of drug. And Generally they are flameable in nature.

3] Ketoamide Hydrochlorine :

This is a rapid & short duration membrane active drug. They are used in short surgical process. (10-25 min).

4] Ultra short acting barbiturates :

This is a very short type of membrane active drug. And it is also used with N_2O combination.

Contd.....

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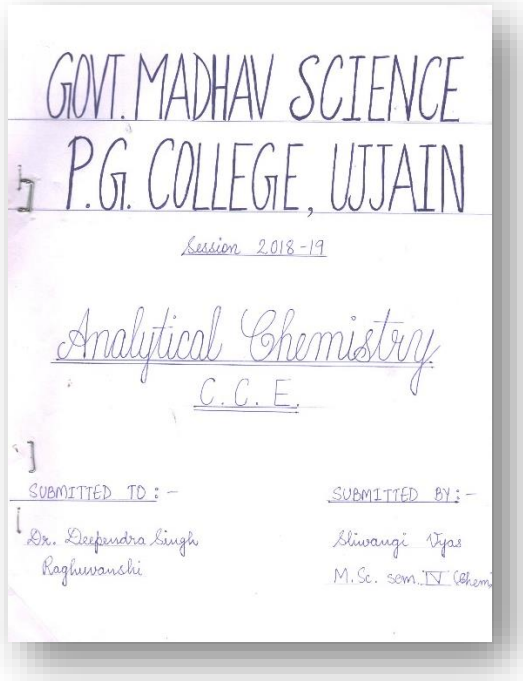


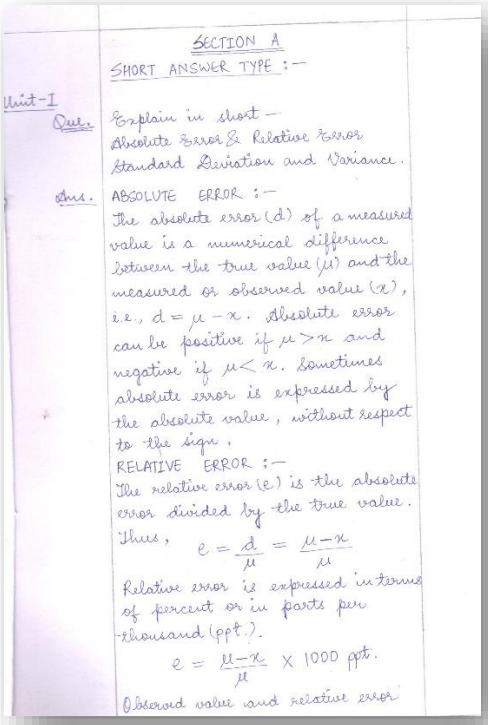
GOVT. MADHAV SCIENCE
P.G. COLLEGE, UJJAIN

Session 2018-19

Analytical Chemistry
C.C.E.

SUBMITTED TO :-
Dr. Deependra Singh
Raghuvanshi

SUBMITTED BY :-
Shivangi Vyas
M.Sc. sem. IV (Chem.



SECTION A
SHORT ANSWER TYPE :-

Unit-I
Ques. Explain in short -
Absolute Error & Relative Error
Standard Deviation and Variance.

Ans. ABSOLUTE ERROR :-
The absolute error (d) of a measured value is a numerical difference between the true value (μ) and the measured or observed value (x), i.e., $d = \mu - x$. Absolute error can be positive if $\mu > x$ and negative if $\mu < x$. Sometimes absolute error is expressed by the absolute value, without respect to the sign.
RELATIVE ERROR :-
The relative error (e) is the absolute error divided by the true value.
Thus, $e = \frac{d}{\mu} = \frac{\mu - x}{\mu}$
Relative error is expressed in terms of percent or in parts per thousand (ppt.).
$e = \frac{\mu - x}{\mu} \times 1000$ ppt.
Observed value and relative error

give true or correct value,

$$\mu = \frac{x}{1-e} \quad (\text{for } e \neq 1)$$

STANDARD DEVIATION :—

Standard deviation (also called root mean square deviation) of measures how closely the data are clustered about the mean. The smaller the standard deviation, the more closely the data are present about the mean. S.D. of a single measurement can be obtained by extracting the square root of the quotient obtained by dividing the sum of the square of the individual deviations of the number of measurements made.

$$\sigma = \left[\frac{1}{n}\Sigma (M_n - m)^2\right]^{1/2} = \sqrt{\left[\frac{\Sigma (X_i)^2}{n}\right]}$$

When the number of values is small the denominator is $(n-1)$ rather than n. The above equation may also be written as

$$s = \left[\frac{\Sigma (M_n - m)^2}{(n-1)}\right]^{1/2} = \sqrt{\left[\frac{\Sigma (X_i)^2}{n-1}\right]}$$

This gives an indication of the reliability of the mean.

If we consider arithmetic mean equation, then the standard deviation may be defined by :

$$s = \sqrt{\frac{(x_1-\bar{x})^2+(x_2-\bar{x})^2+\ldots(x_n-\bar{x})^2}{n-1}}$$

In this equation the denominator is $n-1$ rather than n when the number of measurement is small. The above equation can be written as

$$s = \sqrt{\frac{\Sigma (x-\bar{x})^2}{n-1}}$$

The square of the standard deviation is called the VARIANCE.

Another measure of precision, known as Relative standard deviation (RSD) is given by :

$$RSD = s/\bar{x}$$

This measure is often expressed as a percentage, known as the coefficient of variance (CV). It is given as $CV = s \times 100/\bar{x}$.

Unit-II

Que. Explain Munson Walker method for analysis of Reducing Sugars.

Ans. Carbohydrates are oxidised on heating with an excess of cupric sulphate and alkaline tartrate in basic medium to keep copper as copper (Cu^+) hydroxide.

- Upon heating, water is driven off and copper oxide is converted to cuprous oxide.

Contd.....

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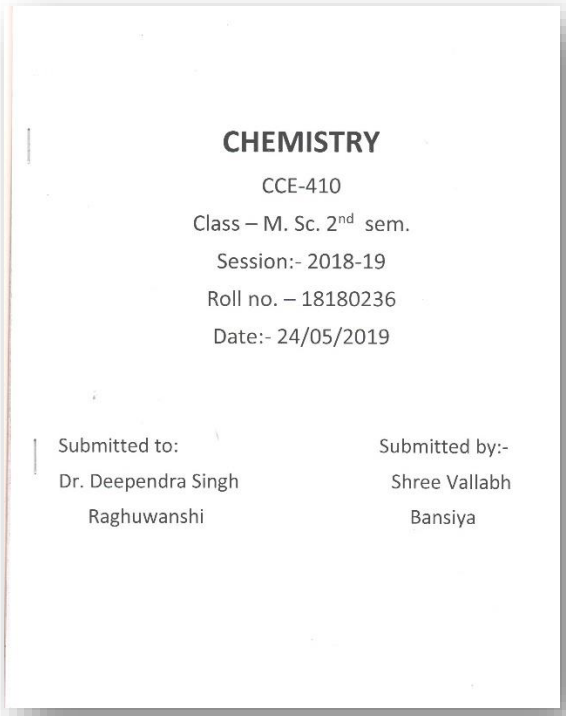


CHEMISTRY

CCE-410

Class – M. Sc. 2nd sem.

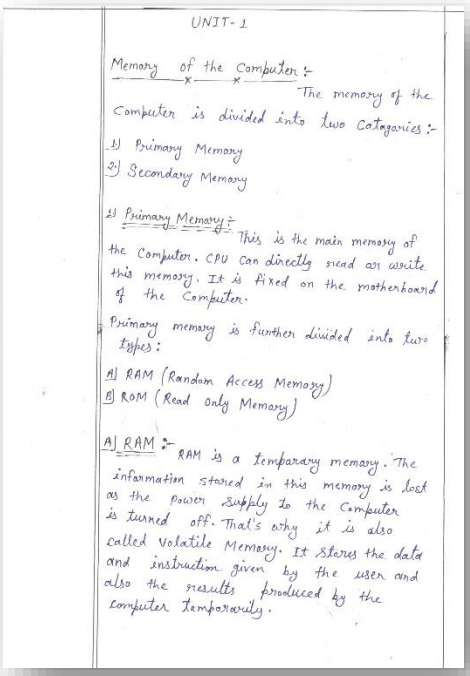
Session:- 2018-19

Roll no. – 18180236

Date:- 24/05/2019

Submitted to:
Dr. Deependra Singh Raghuwanshi

Submitted by:-
Shree Vallabh Bansiya



UNIT- 1

Memory of the Computer :-

The memory of the Computer is divided into two Catagories :-

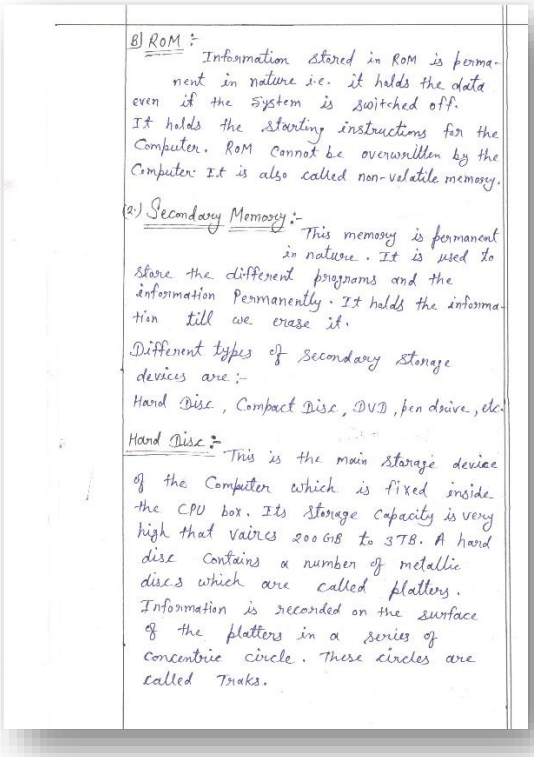
1) Primary Memory
2) Secondary Memory

1) Primary Memory :- This is the main memory of the Computer. CPU can directly read or write this memory. It is fixed on the motherboard of the Computer.

Primary memory is further divided into two types :

A) RAM (Random Access Memory)
B) ROM (Read only Memory)

A) RAM :- RAM is a temparary memory. The information stored in this memory is lost as the power supply to the Computer is turned off. That's why it is also called Volatile Memory. It stores the data and instruction given by the user and also the results produced by the computer temporarily.

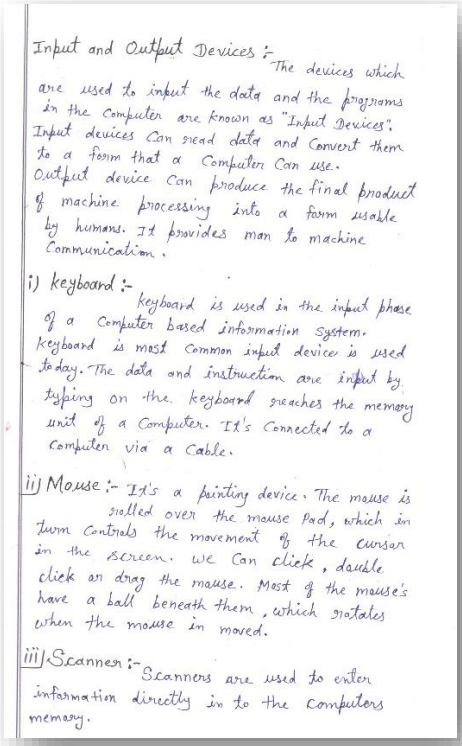


B) ROM :-
Information stored in ROM is permanent in nature i.e. it holds the data even if the system is switched off. It holds the starting instructions for the Computer. ROM Cannot be overwritten by the Computer. It is also called non-volatile memory.

(2) Secondary Memory :-
This memory is permanent in nature. It is used to store the different programs and the information Permanently. It holds the information till we erase it.

Different types of Secondary Storage devices are :-
Hard Disc, Compact Disc, DVD, pen drive, etc.

Hard Disc :-
This is the main storage device of the Computer which is fixed inside the CPU box. Its storage capacity is very high that vaires 200 GB to 3TB. A hard disc contains a number of metallic discs which are called platters. Information is recorded on the surface of the platters in a series of concentric circle. These circles are called Traks.



Input and Output Devices :-
The devices which are used to input the data and the programs in the Computer are known as "Input Devices". Input devices Can read data and Convert them to a form that a Computer Can use. Output device Can produce the final product of machine processing into a form usable by humans. It provides man to machine Communication.

i) keyboard :-
Keyboard is used in the input phase of a Computer based information System. Keyboard is most Common input device is used today. The data and instruction are input by typing on the keyboard reaches the memory unit of a Computer. It's Connected to a Computer via a Cable.

ii) Mouse :- It's a pointing device. The mouse is rolled over the mouse Pad, which in turn Controls the movement of the cursar in the screen. We Can click, double click or drag the mouse. Most of the mouse's have a ball beneath them, which rotates when the mouse in moved.

iii) Scanner :- Scanners are used to enter information directly in to the Computers memory.

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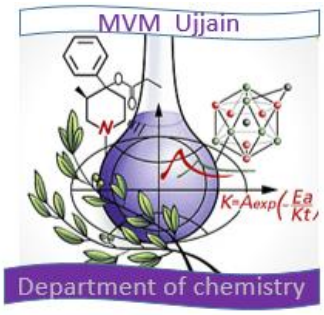


FORMAT FOR CCE (Spectroscopy)M.Sc III & M.Sc.I SEMESTER

SPECTROSCOPIC CASE STUDY OF "ABC" MOLECULE

SESSION 2019-20

- **SPECTROSCOPY**
  - Include EMR spectrum
  - Types of Interaction of EMR with matter
  - Types of spectroscopic interactions
- **MOLECULE**
  - Discuss structure
  - Symmetry and point group
- **IMPORTANCE OF SPECTROSCOPY FOR STRUCTURE ELUCIDATION IN GENERAL**
- **IMPORTANCE OF SPECTROSCOPY FOR STRUCTURE ELUCIDATION OF SPECIFIC MOLECULE**
- **DISCUSS SPECTROSCOPY OF MOLECULE IN DETAIL**
  - Microwave
  - IR
  - Raman
  - NMR
  - UV
- **DISCUSSION OF PEAKS and explanation Real time Spectra**
- **REFRENCES AND ACKNOWLEDGEMENTS**

HPLC PRE TRAINING QUALIFYING TEST

Total marks 50.

Start Time: 1.30 p.m. 03/11/2019

Submission Time: 3.00 p.m.03/11/2019

Responses closed by 3.05 p.m.03/11/2019

Q1.Quantitative analysis may contain calculation and practical errors. How will you apply precision to the analytical tests. What is coefficient of variation give formula to calculate , what is the acceptable value of KV

Q2. Chromatography can be treated as a qualitative or quantitative analytical technique. Discuss

Q3. What is Eleutropic series. Is it adsorbent based. In an series constructed for Silica gel Toluene is placed higher to Acetone, how will you explain it.

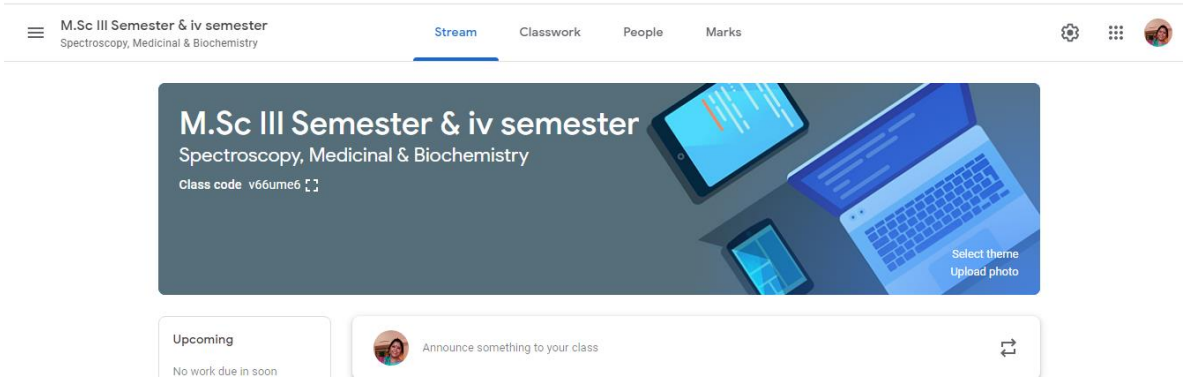
Q4.Does particle size of adsorbent has anything to do with efficacy in Ion exchange Chromatography

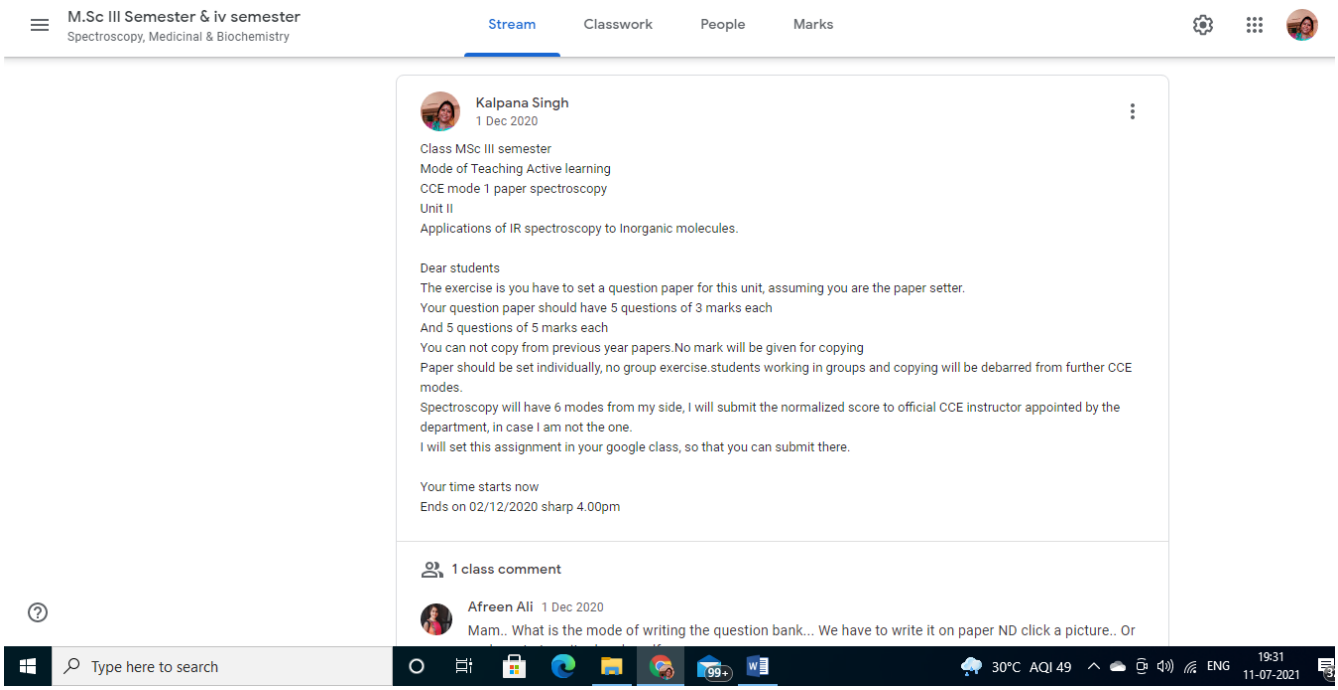
Q5.How will you calculate Dwell volume and Dead Volume in Liquid Injection Chromatography.

PARTICIPATIVE LEARNING MODE FOR CCE

PG III SEMESTER

NOTICE FOR PREPARATION OF QUESTION PAPER





DEPARTMENT OF CHEMISTRY
GOVT. MADHAV SCIENCE PG COLLEGE UJJAIN

CCE MODE POSTER PRESENTATION

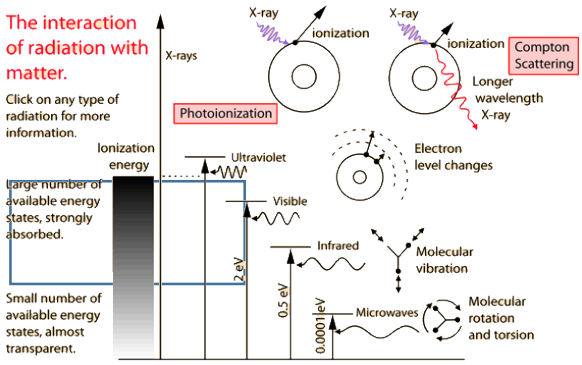
CLASS M.Sc.III Semester

M.Sc.I Semester

Session 2019-20

SPECTROSCOPY : A POWERFUL TOOL FOR STRUCTURE ELUCIDATION OF MOLECULES……

Spectroscopy is the measurement of the absorption, emission, or scattering of electromagnetic radiation by matter to qualitatively or quantitatively study the matter or physical processes. The interaction of radiation with matter can cause redirection of the radiation and absorption via transitions between the energy levels of the atoms or molecules. Spectroscopy is widely used to study structural and dynamical aspect of molecular systems; it is a reliable tool for the characterization of crystalline materials. Modern spectroscopic techniques such as FTIR, FT-Raman, UV-visible, fluorescence and nuclear magnetic resonance (NMR) have proven to be an exceptionally powerful technique for solving many drug molecules, pesticide molecules and the natural products because of the availability of sophisticated instrumentation methods



We present here Spectroscopic case study of very simple molecules, just to have a glimpse of this spectroscopic tool……

Graded poster Presentations

Course Instructor: Dr. Kalpana Virendra Singh
Professor Chemistry

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43		v16r166010153	19195195	Saroj Patidar(Manish)	7		Submitted	Approved
44		V16R166010002	19195196	Sayyed Aafreen Ali(Sayyed Maqsood Ali)	9		Submitted	Approved
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53		V16R166250228	19195205	Vikas Prajapat(Mayaram Prajapat)	8		Submitted	Approved
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17		V16R166180225	19195169	KAJAL MUKHERJEE(SAMAR MUKHERJEE)	8		Submitted	Approved
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Entry Type	Internal Theory Marks		

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23		V16R166070081	19195175	Mahima Upadhyay(Radheshyam)	7		Submitted	Approved
24		V15R166250147	19195176	Manisha (Balram Singh)	8		Submitted	Approved
25		V16R166110049	19195177	Maya Rathor(Mangilal Rathor)	4		Submitted	Approved
26		V15R166050015	19195178	Mayaram (Rajaram)	4		Submitted	Approved
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34		V19R396050017	19195186	POOJA PATEL(PYARELAL PATEL)	5		Submitted	Approved
35		V16611235491	19195187	POONAM KANWAR SHEKHAWAT(MANG SINGH SHEKHAWAT)	8		Submitted	Approved
36		V16R166050620	19195188	Priyanka Damor(Ram Singh)	5		Submitted	Approved
37		v16r166010010	19195189	RADHA (GOPAL SINGH)	6		Submitted	Approved
38		V16R165010020	19195190	Rahul Parmar(Siddhanath Singh Parmar)	7		Submitted	Approved
39		V16R166250273	19195191	Rajendra Kumar Gurjar(Shivnarayan)	7		Submitted	Approved
40		V16R166050373	19195192	Rajesh Bhabor(Nathu Bhabor)	8		Submitted	Approved

1 2 3

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MAX INTERNAL THEORY MARKS: :: **10**

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INTERNAL MARKS ENTRY
(SESSION:DEC-2019)

Note :- Please Click Submit button at the bottom to save marks after filling data in each screen.
Note :- Please Click Approve button at the bottom to approve marks after submitting data.

College Name	Madhav Science College,Kothi Road,Ujjain(605)		
Select Course Name	MSC	Branch Name	Chemistry
Branch Mode	ATKT	Semester	1SEM
Subject	1MSCC3 - GROUP THEORY & SPECTROSCOPY-I - IV		
Entry Type	Internal Theory Marks		

Show Cancel

S.No	Check(All)	Enroll. No.	Rollno	Name (Father's Name)	Obtain Marks		Submit/Approve Status	
					Enter Marks	Check, If absent	Submit Status	Approval Status
1		V17R396050003	17109512	ANITA GAMAD(PAPPU LAL GAMAD)	4		Submitted	Approved
2		B052820	18180234	ROHIT KUMAWAT(GORDHAN LAL KUMAWAT)	6		Submitted	Approved

1

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MAX INTERNAL THEORY MARKS: :: **10**

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INTERNAL MARKS ENTRY
(SESSION:DEC-2019)

Note :- Please Click Submit button at the bottom to save marks after filling data in each screen.
Note :- Please Click Approve button at the bottom to approve marks after submitting data.

College Name	Madhav Science College,Kothi Road,Ujjain(605)		
Select Course Name	MSC	Branch Name	Chemistry
Branch Mode	EX(Sem. Sys.)	Semester	3SEM
Subject	3MSCC0 - APPLICATION OF SPECTROSCOPY - I		
Entry Type	Internal Theory Marks		

Show Cancel

S.No	Check(All)	Enroll. No.	Rollno	Name (Father's Name)	Obtain Marks		Submit/Approve Status	
					Enter Marks	Check, If absent	Submit Status	Approval Status
1		v13r166350100	17109641	MANISHA NISHAD(HARENDRA PRASAD NISHAD)	8		Submitted	Approved
2		V13R166100013	17109643	PRIYA PARMAR(RAJENDRA)	8		Submitted	Approved

1

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MAX INTERNAL THEORY MARKS: :: **10**

Pharma Chemistry

S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Sem	2015-16	Pharma Chemistry	Assignment
2.	B.Sc. 2nd Sem	2015-16	Pharma Chemistry	Assignment
3.	B.Sc. 3rd Sem	2015-16	Pharma Chemistry	Assignment
4.	B.Sc. 4rt Sem	2015-16	Pharma Chemistry	Assignment
5.	B.Sc. 5th Sem	2015-16	Pharma Chemistry	Assignment
6.	B.Sc. 6th Sem	2015-16	Pharma Chemistry	Assignment
7.	M.Sc. 1st Sem	2015-16	Introduction pharmacy Drug Regulatory Act, Intellectual Property Rights 101	Assignment
			Pharmaceutical Chemistry Biochemistry 102	Written Test
			Principles of Organic Pharmaceutical Chemistry 103	Assignment
			Principles of Physical Pharmacy I 104	MCQ
			Mathematics and Statistics for chemistry 105 a	Assignment
			Biology for chemists 105 b	Assignment
8.	M.Sc. 2nd Sem	2015-16	Principal of Inorganic Pharmaceutical Chemistry 201	Assignment
			Pharmaceutical analysis –I 202	Assignment
			Pharmaceutical Analysis II 203	
			Principal of Physical Pharmacy 204	Assignment
			Computers for chemists 205	
9.	M.Sc. 3rd Sem	2015-16	Principal of Physical Pharmacy 301	Written Test
			Principle of Pharmacognosy 302	Assignment
			Pharmaceutical Medicinal Chemistry – I 303	MCQ
			Principle of Inorganic Pharmaceutical Chemistry – II 304	Assignment
			Instrumental Methods of Analysis 305	Assignment
10.	M.Sc. 4th Sem	2015-16	Pharmaceutical Medicinal Chemistry- II 401	Assignment
			Drug Design and Medicinal Chemistry	Chalk Board Presentation
			Advance Chemistry	Assignment
			Supplements, Additives and Toxicology	Assignment
			Pharmacokinetics and drug development 405	Quiz

S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Sem	2016-17	Pharma Chemistry	Assignments
2.	B.Sc. 2nd Sem	2016-17	Pharma Chemistry	Assignments
3.	B.Sc. 3rd Sem	2016-17	Pharma Chemistry	Chalk Board Presentation
4.	B.Sc. 4rt Sem	2016-17	Pharma Chemistry	Assignments
5.	B.Sc. 5th Sem	2016-17	Pharma Chemistry	Assignments
6.	B.Sc. 6th Sem	2016-17	Pharma Chemistry	Assignments
7.	M.Sc. 1st Sem	2016-17	Introduction pharmacy Drug Regulatory Act, Intellectual Property Rights 101	Assignments
8.			Pharmaceutical Chemistry Biochemistry 102	Assignments
9.			Principles of Organic Pharmaceutical Chemistry 103	Written Test
10.			Principles of Physical Pharmacy I 104	MCQ
11.			Mathematics and Statistics for chemistry 105 a	Assignments
12.			Biology for chemists 105 b	Assignments
13.	M.Sc. 2nd Sem	2016-17	Principal of Inorganic Pharmaceutical Chemistry 201	Assignments
14.			Pharmaceutical analysis –I 202	Written Test
15.			Pharmaceutical Analysis II 203	Assignments
16.			Principal of Physical Pharmacy 204	Assignments
17.			Computers for chemists 205	Assignments
18.	M.Sc. 3rd Sem	2016-17	Principal of Physical Pharmacy 301	Assignments
19.			Principle of Pharmacognosy 302	Assignments
20.			Pharmaceutical Medicinal Chemistry – I 303	MCQ
21.			Principle of Inorganic Pharmaceutical Chemistry – II 304	Written Test
22.			Instrumental Methods of Analysis 305	Assignments
23.	M.Sc. 4th Sem	2016-17	Pharmaceutical Medicinal Chemistry- II 401	Assignments
24.			Drug Design and Medicinal Chemistry 402	Written Test
25.			Advance Chemistry 403	Assignments
26.			Supplements, Additives and Toxicology 404	Assignments
27.			Pharmacokinetics and drug development 405	Assignments

S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Year	2017-18	Pharma Chemistry	Written Test
2.	B.Sc. 3rd Sem	2017-18	Pharma Chemistry	Assignments
3.	B.Sc. 4rt Sem	2017-18	Pharma Chemistry	Assignments
4.	B.Sc. 5th Sem	2017-18	Pharma Chemistry	Assignments
5.	B.Sc. 6th Sem	2017-18	Pharma Chemistry	Assignments
6.	M.Sc. 1st Sem	2017-18	Introduction pharmacy Drug Regulatory Act, Intellectual Property Rights 101	Assignments
			Pharmaceutical Chemistry Biochemistry 102	Assignments
			Principles of Organic Pharmaceutical Chemistry 103	Written Test
			Principles of Physical Pharmacy I 104	MCQ
			Mathematics and Statistics for chemistry 105 a	Assignments
			Biology for chemists 105 b	Assignments
7.	M.Sc. 2nd Sem	2017-18	Principal of Inorganic Pharmaceutical Chemistry 201	Assignments
			Pharmaceutical analysis –I 202	Written Test
			Pharmaceutical Analysis II 203	Assignments
			Principal of Physical Pharmacy 204	Assignments
			Computers for chemists 205	Assignments
8.	M.Sc. 3rd Sem	2017-18	Principal of Physical Pharmacy 301	Assignments
			Principle of Pharmacognosy 302	Assignments
			Pharmaceutical Medicinal Chemistry – I 303	MCQ
			Principle of Inorganic Pharmaceutical Chemistry – II 304	Written Test
			Instrumental Methods of Analysis 305	Assignments
9.	M.Sc. 4th Sem	2017-18	Pharmaceutical Medicinal Chemistry- II 401	Assignments
			Drug Design and Medicinal Chemistry 402	Written Test
			Advance Chemistry 403	Assignments
			Supplements, Additives and Toxicology 404	Assignments
			Pharmacokinetics and drug development 405	Assignments

S. No.	Class	Session	Paper name	Mode
10.	B.Sc. 1st Year	2018-19	Pharma Chemistry	Written Test
11.	B.Sc. 2nd Year	2018-19	Pharma Chemistry	Assignment
12.	B.Sc. 5th Sem	2018-19	Pharma Chemistry	Assignment
13.	B.Sc. 6th Sem	2018-19	Pharma Chemistry	Assignment
14.	M.Sc. 1st Sem	2018-19	Introduction pharmacy Drug Regulatory Act, Intellectual Property Rights 101	Assignment
			Pharmaceutical Chemistry Biochemistry 102	Assignment
			Principles of Organic Pharmaceutical Chemistry 103	Written Test
			Principles of Physical Pharmacy I 104	MCQ
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15.	M.Sc. 2nd Sem	2018-19	Principal of Inorganic Pharmaceutical Chemistry 201	Assignment
			Pharmaceutical analysis –I 202	Written Test
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			Principal of Physical Pharmacy 204	Assignment
			Computers for chemists 205	Assignment
16.	M.Sc. 3rd Sem	2018-19	Principal of Physical Pharmacy 301	Assignment
			Principle of Pharmacognosy 302	Assignment
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17.	M.Sc. 4th Sem	2018-19	Pharmaceutical Medicinal Chemistry- II 401	Assignment
			Drug Design and Medicinal Chemistry 402	Written Test
			Advance Chemistry 403	Assignment
			Supplements, Additives and Toxicology 404	Assignment
			Pharmacokinetics and drug development 405	Assignment

S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Year	2019-20	Pharma Chemistry	Written Test
2.	B.Sc. 2nd Year	2019-20	Pharma Chemistry	Assignment
3.	B.Sc. 3rd Year	2019-20	Pharma Chemistry	Assignment
4.	M.Sc. 1st Sem	2019-20	Introduction pharmacy Drug Regulatory Act, Intellectual Property Rights 101	Assignment
			Pharmaceutical Chemistry Biochemistry 102	Assignment
			Principles of Organic Pharmaceutical Chemistry 103	Written Test
			Principles of Physical Pharmacy I 104	MCQ
			Mathematics and Statistics for chemistry 105 a	Assignment
			Biology for chemists 105 b	Assignment
5.	M.Sc. 2nd Sem	2019-20	Principal of Inorganic Pharmaceutical Chemistry 201	Assignment
			Pharmaceutical analysis –I 202	Written Test
			Pharmaceutical Analysis II 203	Assignment
			Principal of Physical Pharmacy 204	Assignment
			Computers for chemists 205	Assignment
6.	M.Sc. 3rd Sem	2019-20	Principal of Physical Pharmacy 301	Assignment
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			Pharmaceutical Medicinal Chemistry – I 303	MCQ
			Principle of Inorganic Pharmaceutical Chemistry – II 304	Written Test
			Instrumental Methods of Analysis 305	Assignment
7.	M.Sc. 4th Sem	2019-20	Pharmaceutical Medicinal Chemistry- II 401	Assignment
			Drug Design and Medicinal Chemistry	Written Test
			Advance Chemistry	Assignment
			Supplements, Additives and Toxicology	Assignment
			Pharmacokinetics and drug development 405	Assignment

2015-16

B.Sc. 1st Sem

Name - Mayank Kinshuk

Class - B.Sc. I Sem

Session - 2015-16

Paper - Organic

Subject - Pharmaceutical Chemistry

Ans 1 Enzyme neutralizer :- It is completely remove all pet stains and Odors :- urine, feces, vomit & drool. MULTI - Surface formula, carpet, hardwood, & furniture leather rugs, Pet beds, crates, car upholstery, Children & Pet Safe. Natural enzyme formula is the Safest way. To clean up pet. made Stain & Odor.

Ans 9 Routes of drug administration :- A route of administration in Pharmacology & toxicology, is the path by which a drug, fluid, Poison, or other Substance is taken into the body. Routes of administration are generally classified by the location at which the Substance is applied. Common examples include oral and intravenous administration. Routes can also be classified based on where the target of action is. Action is may be topical (local), enteral (System wide

Name - Aayush Sharma

Class - B.Sc. I Sem

Subjit - Organic (Pharma. chemistry)

Session - 2015 - 2016

local - They are not delivered by the GIT path.

The routes of drug administration is aspect of drug delivery.

Any-10 "OR"

classification of drugs on the basis of biological sources:-

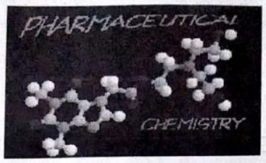
Natural drugs are obtained from plants and animals so that they are called biological sources of origin.

That type drugs are collected by the living cells of plant and animals.

They includes plant sources and animal.

sources :-

(1) Plant sources :- They are the oldest sources of plant drugs. The plants are the



Department of Pharmaceutical Chemistry , Govt. Madhav Science P.G. College Ujjain (M.P.)

B.Sc II Sem Session:-2015-2016

Principle of inorganic and physical pharmaceutical chemistry

Mode :- Assignment

Q.1 Write the structure and uses of alum.

Q.2 Write synthesis, properties and uses of Aromatic spirit.

Q.3 Explain Sources of impurities.

Q.4 Write about sources of Error.

Q.5 Discuss methods of expressing concentration.

Teacher In charge :- Miss Priyanka Khare

Faculty of Pharma Department

Difficulty Level : Moderate

Expected Average Score as per difficulty level =6/10

Yashwant Singh
B. Sc - II Sem
2015-16

प्रश्न क्रमांक - 05

प्र- सांद्रण व्यक्त करने की विधि:-
सांद्रण व्यक्त करने की विधि निम्नलिखित है :-

1) मोलरता :-
किसी विलयन के 1000gm विलायक मे उपस्थित विलय के मोलो की संख्या को विलयन की मोलरता कहते है। इसे m से दर्शाते है। इसका मात्रक मोल / लीटर है।

$$m = \frac{\text{विलय के मोलो की संख्या}}{\text{विलयन का लिटर मे आयतन}}$$

2) प्रतिशतता :-
किसी विलयन के 100 भागो मे उपस्थित विलेय के भागो को प्रतिशत कहते है। इसे % से दर्शाते है।

3) मोललता :-
किसी विलयन के एक लीटर विलयन मे घुले विलय के ग्राम अणु द्रव्यमान को मोललता कहते है इसे m से दर्शाते है।

$$\text{मोललता} = \frac{\text{विलय का द्रव्य.} \times 1000}{\text{विलयन का द्रव्य.} \times \text{विल. का अणु द्रव्य.}}$$

Date: / / Page no:

2) Molality :- it is defined as the no. of moles of solute dissolve in 1kg of Solution. it is denoted by 'M'

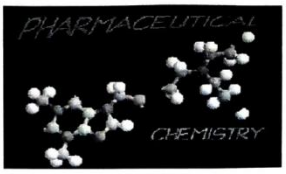
$$\text{Molality} : \frac{\text{no. of moles of solute}}{\text{mass of sol}^n \text{ in (1 kg)}}$$

3) Molarity :-
It is defined as the no. of moles of solute is dissolved in 1 litre of Solution. it is denoted by 'm'.

$$\text{molarity} : \frac{\text{no. of moles of solute}}{\text{volume of sol}^n \text{ in litre}}$$

4) Formality :- The formula mass of solute is molar of solvent. it is denoted by 'F'

$$\text{formality} :- \frac{\text{mass of solute}}{\text{molar of solvent}}$$



Department of Pharmaceutical Chemistry
B.Sc. III Semester
Session -2015-2016
Paper:- Medicinal Chemistry
Mode:- Assignment Questions

Marks :-15

Question -1 Write structure , synthesis and uses of Procaine.

Question -2 Write structure , synthesis and uses of Chloroform.

Question -3 Write structure , synthesis and uses of Barbiturate .

Question-4 Define the term Local Anesthetic drugs with example.

Question -5 Write structure , synthesis and uses of Allobarbital .

Teacher In charge :- Priyanka Khare

Faculty of Pharma Department

Difficulty Level : Moderate

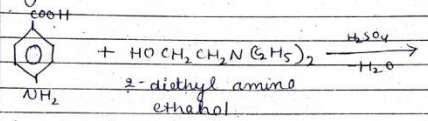
Expected Average Score as per difficulty level =8/15

Name :- Tanuj Jain
Class :- Bsc IIIrd Sem.
Subject :- Medicinal chemistry.
Session :- 2015 - 16
Mode :- Assignment

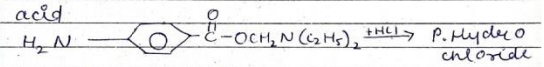
Chemical Name :- diethyl amino ethyl p-amino benzoate

① from p- amino benzoic acid

Syn :-



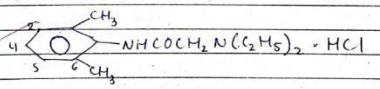
p- amino benzoic acid



Procaine Base

③ Lignocaine Hydrochloride

Str :-

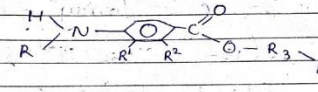


Chemical Name :- 2(diethyl amino 2,6 Acetoxylidine) Hydrochloride

→ 2 diethyl amino N 2,6 dimethyl

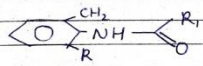
Drug name	R	R'
1) Cocaine	H	
2) Hexylcaine	H	

⑥ Para - Amino Benzoic acid desivation



Drug name	R	R_1	R_2	R_3	R_4
Benzocaine	H	H	H	CH_2CH_3	-
Procaine	H	H	H	$-CH_2-CH_2$	$-N(C_2H_5)_2$

③ Anilides :-



Drug name	R	R_1
Lignocaine	CH_3	$-CH_2N(C_2H_5)_2$
Mepivacaine	CH_3	

Department of Pharmaceutical Chemistry
B.Sc. IV Semester
Session -2015-16
Paper:- Chemistry of Natural Products
Mode:- Assignment

Marks :-15

Question -1.Desceibe Classification of terpenes.

Question -2 .Write a detail note on Alkaloids.

Question -3. Describe physicochemical properties of lipids..

Question-4 .Discuss isolation of steroids .

Question -5. Write a short note on Expectorant and anti-tiussive.

Name - Harshita Sharma

Class - B.Sc. IV Sem.

Session - 2015-16

Assignment - Paper -II

14/15

Teacher In charge :- Komal Chelaramani

Faculty of Pharma Department

Difficulty Level : Moderate

Expected Average Score as per difficulty level =6/10

Date: / / Page No.:

Q.1 Give the Classification of Terpens :-

Ans- मुख्यतः terpens शब्द का अर्थ यह है कि यह एक समावयवी हाइड्रोकार्बन का मिश्रण होता है जिसका आणविक सूत्र $(C_5H_8)_n$ होता है जिसे मुख्यतः terpenstein तथा कई आवश्यक तेलों में प्राप्त किया होता है -

Classification - Terpenoid hydrocarbon को इस आधार पर वर्गीकृत किया गया है - कि terpenoid में कितनी संख्या में Isopren इकाई और जोड़ित होते. के तीन श्रेणीबद्ध किया गया है -

Classes of terpenoid Hydrocarbones

S.No	class	No. of Isopren units	Molecular formula
1.	Hemiterpenes Isopren	1	C_5H_8
2.	Monoterpenes Terpenes	2	$C_{10}H_{16}$
3.	Sesquiterpenes	3	$C_{15}H_{24}$
4.	Diterpenes	4	$C_{20}H_{32}$
5.	Triterpenes	6	$C_{30}H_{48}$
6.	Tetraterpenes (Carotenoids)	8	$C_{40}H_{64}$
7.	Polyterpenes Rubber.	n	$(C_5H_8)_n$

Date: / / Page No.:

Question-2 Camphor :-

Camphor is a waxy, flammable, transparent solid with a strong aroma.[5] It is a terpenoid with the chemical formula $C_{10}H_{16}O$. It is found in the wood of the camphor laurel (Cinnamomum camphora), a large evergreen tree found in East Asia, also of the unrelated kapur tree (Dryobalanops), a tall rare timber tree from South East Asia. It also occurs in some other related trees in the laurel family, notably Ocotea usambarensis.

Rosemary leaves (Rosmarinus officinalis) contain 0.05 to 0.5% camphor.[6] while camphorwood (Heterotheca) contains some 5%.[7] A major source of camphor in Asia is camphor basil (the parent of African blue basil).

Camphor can also be synthetically produced from oil of turpentine.

formula :- $C_{10}H_{16}O$.

Camphor uses :-

① Camphor (topical) Suggested uses include treating pain, warts, cold sores, hemorrhoids, osteoarthritis, and to increase local blood flow, and as a counterirritant.

② Camphor is an FDA-approved topical antitussive (anti-cough). Camphor is an FDA-approved topical analgesic and anesthetic used to relieve pain.

① Explain the Heterocyclic Compound of Indole ?

Indole को सर्वप्रथम बेयर ने 1866 में आक्सी-इन्डोल के zinc distillation से प्राप्त किया गया था इसका रसायन शास्त्र में बहुत अधिक महत्व है। क्यों की यह प्राकृतिक डाई Indego से समानता प्रदर्शित करता है।

इंडोल एक aromatic heterocyclic compound है। जिसका सूत्र C8H7N है यह एक Bicyclic रचना है। जिसमे बेंजीन रिंग जुड़ी होती है। इण्डोल कोलतार essential oil जैसे जैसमीन oil, orange oil अर्थात ट्रिप्टोफेन के पाया जाता है। और एल्कोलाइड्स जैसे स्ट्रुसीन में भी पाया जाता है।

इण्डोल का IUPAC नाम 1,H benzo pyrol कहलाता है

इण्डोल का Totomerism form इण्डोलीन कहलाता है। यह इण्डोलीन दो प्रकार का होता है।

इण्डोलीन

i) 3-H

2/1-H benzo Py (INDOLE)

Structure of Carbohydrates.

Carbohydrates consist of carbon hydrogen, and oxygen. The general empirical structure for carbohydrates is $(CH_2O)_n$. They are organic compounds organized in the form of aldehydes or ketones with multiple hydroxyl groups coming off the carbon chain. The building blocks of all carbohydrates are simple sugars called monosaccharides. A monosaccharides can be a polyhydroxy aldehyde or a polyhydroxy Ketone.

Open chain Structure :-
It is the long straight chain form of Carbohydrates.

Haworth Structure :-
It is the presence of the pyranose ring structure.

Shrinath
Date
Page No. 1

Salbutamol

Salbutamol is a highly selective β2-adrenergic receptor stimulating drug that has a bronchodilator effect. It is used to relieve bronchospasm in bronchial asthma, chronic bronchitis, emphysema and other airway resistance diseases.

General Pharmacology :-
⇒ The chemical name of Salbutamol is 1(4-hydroxy-3-hydroxymethylphenyl)-2 (t-butylamino)- ethanol Sulphate, molecular formula $(C_{13}H_{21}NO_3)_2 \cdot H_2SO_4$ and molecular weight is 576.7

⇒ After oral administration, approximately 50% of Salbutamol is absorbed from the intestinal tract with a slower onset of action, reaching a peak at about 2 hours after intake. After inhalation, Salbutamol reaches the lung directly and act within 3-5 minute with a peak at 15-20 minutes. Overall duration of action of Salbutamol is 4-6 hours. It is —

Shrinath
Date
Page No. 3

Usage :-

1. Bronchospasm with reversible obstructive airway diseases

Salbutamol is indicated for the prevention or treatment of bronchospasm with reversible obstructive airway diseases such as-

⇒ Bronchial asthma

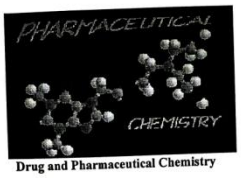
⇒ Chronic obstructive pulmonary diseases (COPD) which includes chronic bronchitis and emphysema.

2. Exercise - induced bronchospasm :-

⇒ Salbutamol is used for the prevention of exercise - induced bronchospasm.

3. Use in pregnancy :-
Salbutamol is a pregnancy Category C drug. It should be used during pregnancy only if -

Vasudev Soni



Drug and Pharmaceutical Chemistry

M.Sc. I Semester

2015-2016

Paper – 104 Physical Pharmacy -I

Multiple Choice Questions :- **Marks :-10**

1. The study of the flow of heat or any other form of energy into is called

A]Thermo chemistry B] Thermo kinetics C] Thermodynamics D] Thermo chemical

2. Thermodynamic is applicable to

A] Microscopic system only B] Macroscopic system only C] Homogenous system only D] Heterogeneous System

3. A system that can transfer neither matter nor energy to and from its surroundings is called

A] A closed system B] An isolated system C] An open System D] A homogenous system

4.Entropy is a measure …….. of the molecule of the system.

A] Concentration B] Velocity D] Zig –Zag motion D] Randomness or disorder

5. The entropy of the system increases in the order.

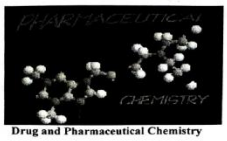
A] gas<liquid< solid B] gas<Solid <Liquid C] solid <gas<liquid D] None of these

6.Normality of a solution is the number of ….. of solute per litre o the solution .

A] Moles B] Equivalent C] Formula weight D] Mole fraction

7.When a non-volatile is dissolved in a pure solvent , the vapor pressure of the pure solvent

Divya Gurjar



Drug and Pharmaceutical Chemistry

M.Sc. I Semester

2015-2016

Paper – 104 Physical Pharmacy -I

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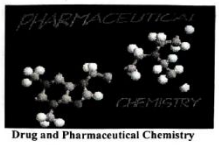
10/10

Anjali Tiwari



Drug and Pharmaceutical Chemistry

M.Sc. I Semester

2015-2016

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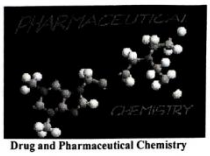
10/10



Drug and Pharmaceutical Chemistry

M.Sc. I Semester

2015-2016

Paper – 104 Physical Pharmacy -I

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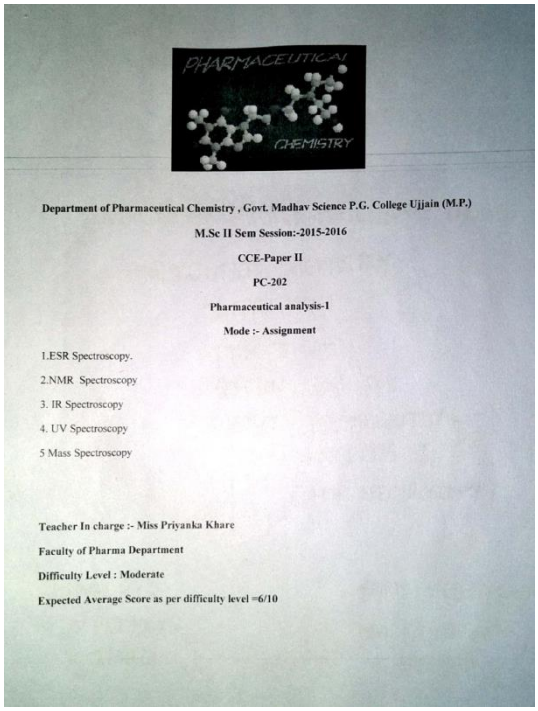
08/10



Department of Pharmaceutical Chemistry , Govt. Madhav Science P.G. College Ujjain (M.P.)

M.Sc II Sem Session:-2015-2016

CCE-Paper II

PC-202

Pharmaceutical analysis-1

Mode :- Assignment

1.ESR Spectroscopy.

2.NMR Spectroscopy

3. IR Spectroscopy

4. UV Spectroscopy

5 Mass Spectroscopy

Teacher In charge :- Miss Priyanka Khare

Faculty of Pharma Department

Difficulty Level : Moderate

Expected Average Score as per difficulty level =6/10

Electron Spin Resonance Spectroscopy :-

Electron spin resonance is a branch of absorption spectroscopy in which radiation having frequency in the microwave region is absorbed by Paramagnetic substance to induce transitions between magnetic energy levels of electrons with unpaired spins.

The magnetic energy splitting is done by applying a static magnetic field. The electron spin resonance phenomenon is shown by atoms having an odd number of electrons, ions having partially filled inner electron shells and other molecules that carry angular momentum of electron origin.

The electron spin resonance (ESR) is also called by other names such as "Electron Paramagnetic Resonance (EPR) and "Electron magnetic resonance" (EMR). All these names convey the same meaning and simply describe the different aspects of the same phenomenon.

The electron spin resonance (ESR) is another type of magnetic resonance. It is concerned with the magnetic behaviour of spinning electrons. The ESR spectrum like NMR, results from transition from one spin state to the other state of an electron.

Govt. Madhav Science P.G. College Ujjain

सत्यं ज्ञानमनन्तम्

CCE- Chalk Board Presentation

Session -2015-16

Topic- Sources of Impurities in pharmaceutical Substance

Submitted to :-
Vaibhav Sharma

Submitted By:-
Vasudev Soni
M.Sc. II Sem
Drug and Pharmaceutical Chemistry

10/10

of getting substances without impurities at reasonable cost. It is possible to prepare subs. [through a series of steps of purification] without any impurity but this may be achieved at any cost considering this as fact the limit of various impurities have been prescribed.

4) Deliberate adulteration employs material that are having similar qualities. also accounts for their presence of impurities in the substances.
Example - Adulteration of Na salt with K salt, Ca salt with Mg salt etc.

Impurities - A pharmaceutical compound is said to be impure if it is having foreign matter ie impurities. A state of absolute purity is virtually unobtainable but may be approached as closely as desired provided sufficient care is taken during the manufacturing process.

a) Sources of impurities in Pharmaceutical chemicals.

1) Raw materials employed in manufacture Impurities known to be associated with these chemicals may be carried through the manufacturing process and contaminate the final compound.

Surbhi Shukla

Drug and Pharmaceutical Chemistry

M.Sc. III Semester

2015-2016

Paper – 303 Medicinal Chemistry –I

Mode:- MCQ

Multiple Choice Questions :- **Marks :-10**

1. The major route of elimination of the volatile general anesthetics is via

A] Kidneys B] Skin C] Lungs D] Liver

2. Anesthesia of mucous membrane is called

A] Infiltration Anesthesia B] Filed Block Anesthesia C]Nerve Block Anesthesia D] Topical Anesthesia

3. Which are of the following belongs to long acting –barbiturate?

A] Pentobarbital B]Phenobarbital C] Thiopental D] Hexabarbital

4. One of the following belongs to imidazoline-2,4-dione class

A]Phenytoin B]Trimethadione C] Phenasuxmide D]Paramethadione

5. The B_1 receptors are located in .....

A] Heart B] Lungs C] Kidney D] Adrenal Gland

6. 3,4-dihydroxr-1-[isopropylamine] methyl benzyl alcohol is

A] Adrenaline B]Propanolol C] Phenylephrine D] Isoprenaline

7. Acetyl Choline is biosynthesized from

A] L-Cysteine B] L-Codeine C] L-Serine D] L-Cholic acid

8. Acetaminophen is used for

A] Fever B] Inflammation C] Anti-Platelets D] Cancer

9. Side- Effects of [$NSAID_s$] include expects

A] Peptic Ulcer B] Reduced Kidney Function c] GIT Bleeding D] Seizures

10. ..... is the drug of choice for grandma epilepsy

A] Diazepam B] Barbiturates C] Phenytoin D] Lamotrigine

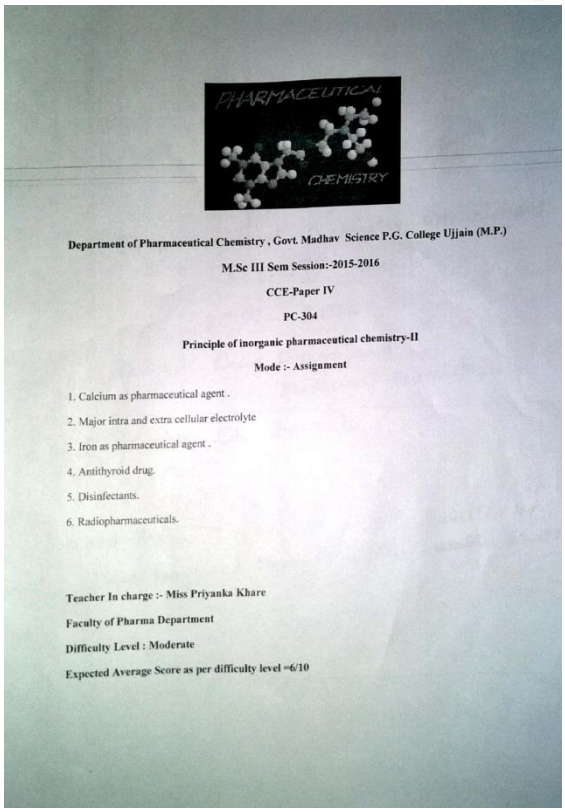
10/10

Teacher In charge :- Priyanka Khare

Faculty of Pharma Department

Difficulty Level : Moderate

Expected Average Score as per difficulty level =6/10



Department of Pharmaceutical Chemistry , Govt. Madhav Science P.G. College Ujjain (M.P.)

M.Sc III Sem Session:-2015-2016

CCE-Paper IV

PC-304

Principle of inorganic pharmaceutical chemistry-II

Mode :- Assignment

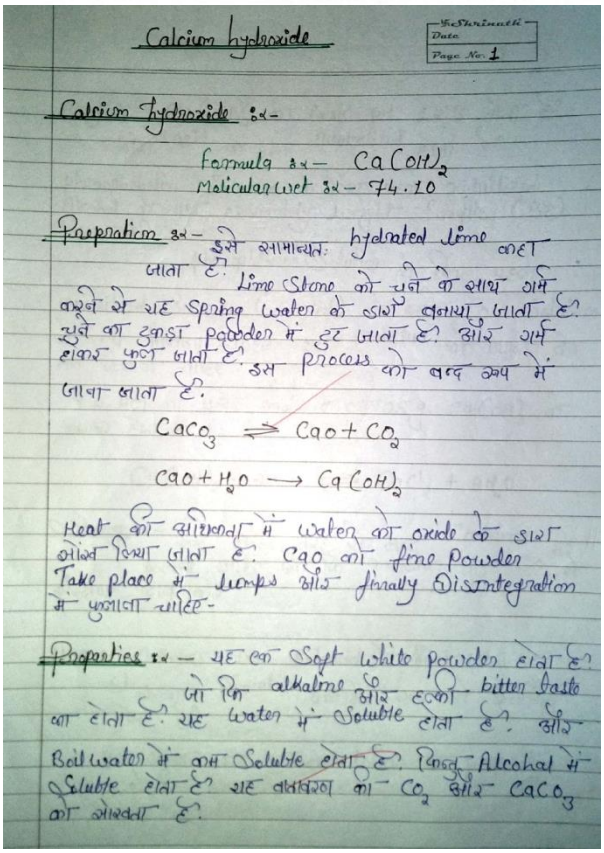
1. Calcium as pharmaceutical agent .
2. Major intra and extra cellular electrolyte
3. Iron as pharmaceutical agent .
4. Antithyroid drug.
5. Disinfectants.
6. Radiopharmaceuticals.

Teacher In charge :- Miss Priyanka Khare

Faculty of Pharma Department

Difficulty Level : Moderate

Expected Average Score as per difficulty level =6/10



Calcium hydroxide

Date
Page No. 1

Calcium hydroxide :-

Formula :- $Ca(OH)_2$
Molecular wt :- 74.10

Preparation :- इसे सामान्यतः hydrated lime कहा जाता है। Lime Stone को चूने के साथ गर्म करने से यह Spring water के डालें बनाया जाता है। चूने का टुकड़ा powder में टूट जाता है और गर्म होकर फूल जाता है। इस process को बन्द रूप में जाना जाता है।

$CaCO_3 \rightleftharpoons CaO + CO_2$

$CaO + H_2O \longrightarrow Ca(OH)_2$

Heat की अधिकता में water का oxide के डार अलग किया जाता है। CaO का fine powder Take place में lumps और finally Disintegration में फुलाना चाहिए।

Properties :- यह एक Soft white powder होता है जो कि alkaline और इसका bitter taste का होता है। यह water में Soluble होता है और Boil water में कम Soluble होता है। किन्तु Alcohal में Soluble होता है। यह वातावरण का CO_2 और $CaCO_3$ को सोखता है।

PHARMACEUTICAL CHEMISTRY

Department of Pharmaceutical Chemistry ,

Govt. Madhav Science P.G. College Ujjain (M.P.)

Session:-2015-16

CCE- M.Sc . – IV sem

PC-405 Pharmacokinetics and drug develoment

Mode :-Quiz

1. The study of the time course of drug absorption, distribution, metabolism, and excretion is called:-
   A. pharmacodynamics.
   B. drug concentration.
   C. pharmacokinetics.
   D. kinetic homogeneity.

2 . The application of pharmacokinetic principles to the safe and effective therapeutic management of drugs in an individual patient is known as:

   A. pharmacodynamics.

   B. clinical pharmacokinetics

3. Since we cannot practically measure drug concentration in specific tissues, we measure it in the plasma and assume that this concentration is the same as that in tissue.:-

   A. True

   B. False

4. Pharmacodynamics refers to the relationship of drug:

   A. dose to drug concentration in plasma.

   B. dose to drug concentration at the receptor site.

   C. concentrations to drug effect.

   D. dose to drug effect.

5. Drug pharmacodynamics are affected by the drug concentration at the site of the receptor, density of receptors on the target cell surface, mechanism by which a signal is transmitted into the cell by second messengers, and regulatory factors that control gene translation and protein production:-

   A. True

   B. False

6. The EC50 refers to the drug concentration at which:

   A. one-half the maximum response is achieved.

   B. the maximal effect is achieved.

   C. tolerance is likely to be observed

7. The therapeutic range is the range of plasma drug concentrations that clearly defines optimal drug therapy and where toxic effects cannot occur.

   A. True

   B. False

8. Therapeutic drug concentration monitoring with plasma drug concentration data assumes that pharmacologic response is related to the drug concentration in plasma.

   A. True

   B. False

9. Factors that cause variability in plasma drug concentrations after the same drug dose is given to different patients include variations in the:

   A. drug absorption.

   B. EC50 of the drug.

10. . An example of a situation that would not support therapeutic drug concentration monitoring with plasma drug concentrations would be one in which:

   A. a wide variation in plasma drug concentrations is achieved in different patients given a standard drug dose.

   B. the toxic plasma concentration is many times the therapeutic concentration range.

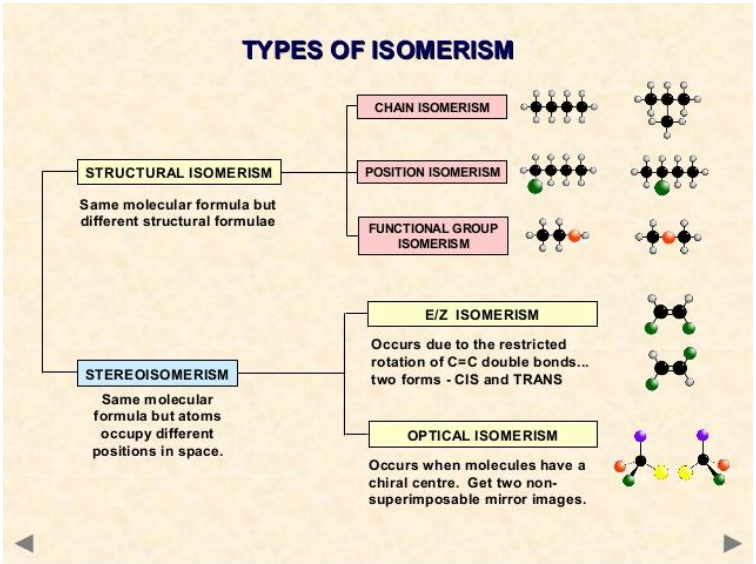
   C. correlation between a drug's plasma concentration and therapeutic response is good.

Teacher In charge :- Smt. Komal Gurudasani

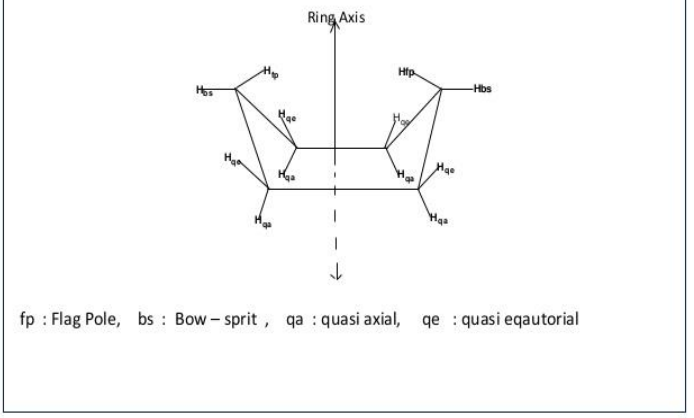
Faculty of Pharma Department

Difficulty Level : Moderate

Expected Average Score as per difficulty level =6/10



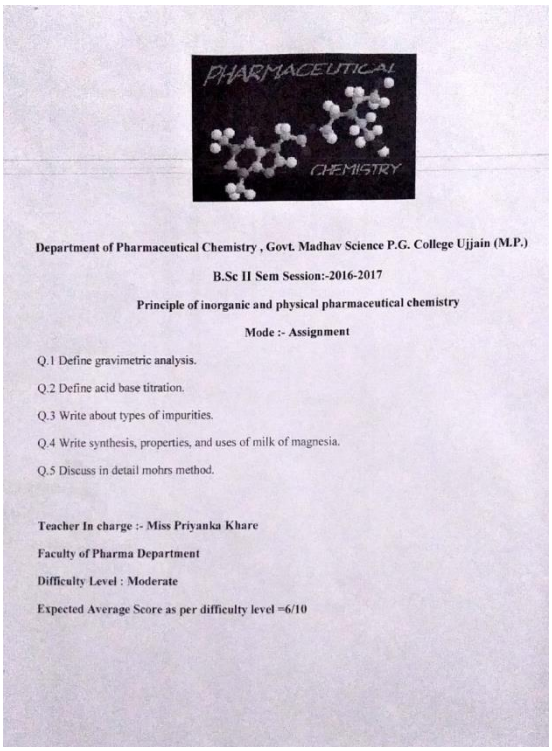
Types of Hydrogen atoms in Boat Conformation



fp : Flag Pole, bs : Bow – sprit , qa : quasi axial, qe : quasi eqautorial

2016-17

B.Sc. 2nd Sem



Department of Pharmaceutical Chemistry , Govt. Madhav Science P.G. College Ujjain (M.P.)

B.Sc II Sem Session:-2016-2017

Principle of inorganic and physical pharmaceutical chemistry

Mode :- Assignment

Q.1 Define gravimetric analysis.

Q.2 Define acid base titration.

Q.3 Write about types of impurities.

Q.4 Write synthesis, properties, and uses of milk of magnesia.

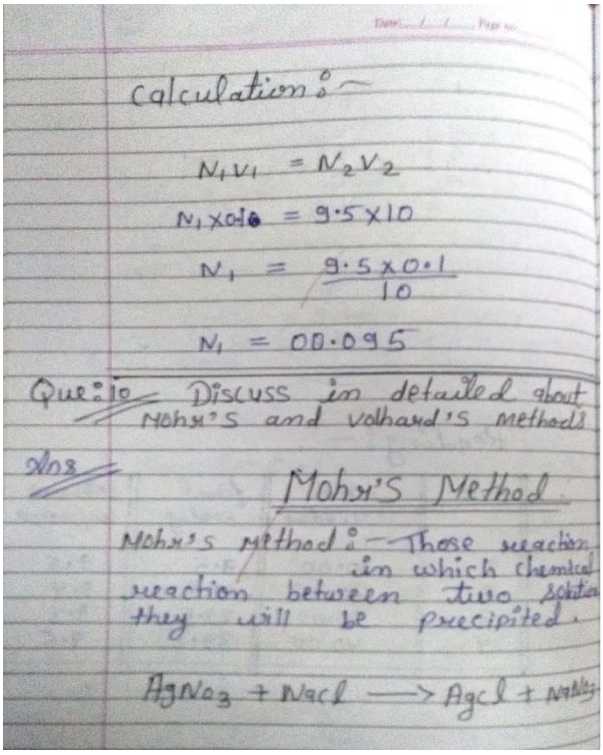
Q.5 Discuss in detail mohrs method.

Teacher In charge :- Miss Priyanka Khare

Faculty of Pharma Department

Difficulty Level : Moderate

Expected Average Score as per difficulty level =6/10



Calculation :-

$N_1V_1 = N_2V_2$

$N_1 \times 10 = 9.5 \times 10$

$N_1 = \frac{9.5 \times 0.1}{10}$

$N_1 = 00.095$

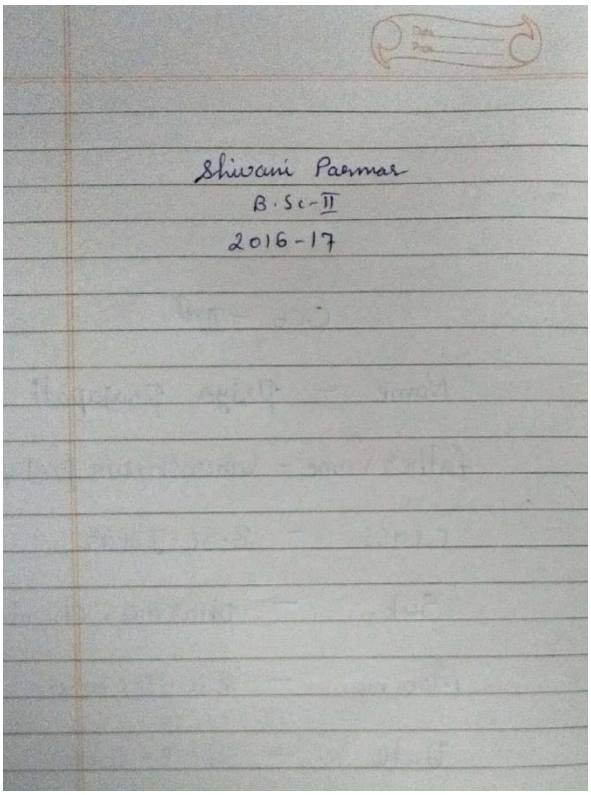
Que :- Discuss in detailed about Mohr's and volhard's methods

Ans

Mohr's Method

Mohr's method :- Those reaction in which chemical reaction between two solution they will be precipited.

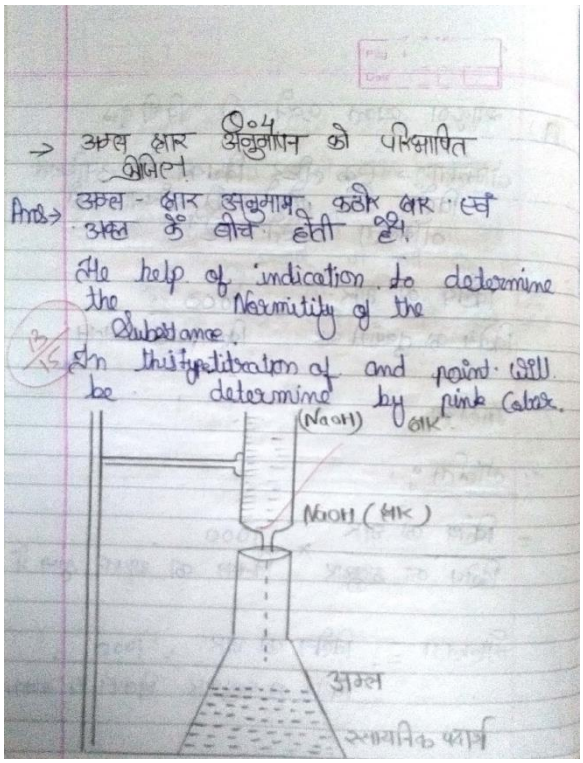
$AgNo_3 + NaCl \longrightarrow AgCl + NaNO_3$



Shivani Panwar

B.Sc-II

2016-17

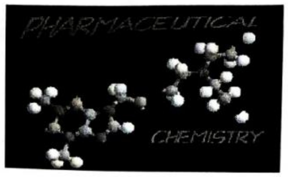


→ अम्ल क्षार अनुमापन को परिभाषित कीजिए।

Ans→ अम्ल - क्षार अनुमापन, कहीं क्षार एवं अम्ल के बीच होती है।

The help of indication to determine the Normality of the substance.

In this type titration of end point will be determine by pink colour.



Department of Pharmaceutical Chemistry
B.Sc. III Semester
Session -2016-2017
Paper:- Medicinal Chemistry
Mode:- Chalk Board Presentation

Marks :-15

Topics :-

1. Anesthetic Drugs.
2. Hypnotic and Sedative Drugs [Barbiturates].
3. Morphine.

Teacher In charge :- Priyanka Khare

Faculty of Pharma Department

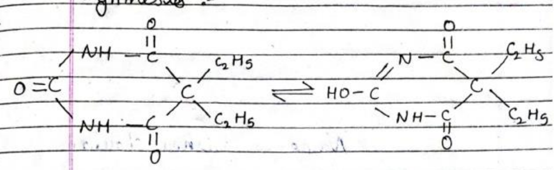
Difficulty Level : Moderate

Expected Average Score as per difficulty level =8/15

(4) (3)

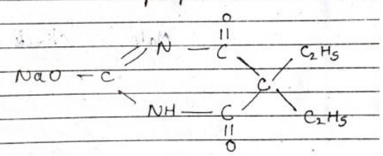
12/15

Synthesis :-



5, 5 diethyl barbituric acid (Lactum) ⇌ (Lactim)

In stoichi-ometric proportion (NaOH)



Barbital sodium

Dose :- 0.04 to 0.6 g

Properties :- Barbitone is water soluble Electrovalent and polar compound

Side effect :- Excretion is kindey is not easily metabolism in liver.

Date:
Page No:

Name :- Mayank Kinshuk.
Class :- B.S.C III Sem.
Subject :- Medicinal chemistry
Session :- 2016-17
Mode :- chalk board presentation

Date:
Page No:

Question SAR of ~~Morf~~ Morphine

Ans.(1) HAMMETT AND HANSCH PLOT IN DRUG formulation - presented by. Nasraino majie Nabilah and joorawan svenia Date 10th November 2014

(2) Teble of content. Introduction. Modification of lead compound. drug design -
(a) Lipophilicity (b) electronic effects (c) steric effects
(d) Hansch analysis. Morphine as example. Conclusion. reference.

(3) Hammett Louis plack Hammett (April 1894 – Feb. 1987) was an American physical chemist. He is know for The hammett equilibrium constant for some classes of organic reactions including substituted aromatic compounds

(4) Introduction -

(5) –||– SAR is an advance designed to find The relationships between chemical

14/15

Govt. Madhav Science P.G. College Ujjain

CCE-PPT

Session -2016-17

Topic- Antineoplastic

Submitted to

Miss. Shruti Sharma

Submitted By

Harshita Sharma

Pharmaceutical Chemistry

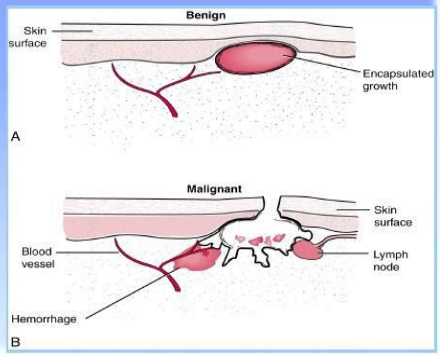
Neoplasm

It is an abnormal mass of tissue as a result of **Neoplasia**

(Neoplasia (*new growth* in Greek) is the abnormal proliferation of cells)

Classification of Neoplasm

- **Benign**
- Potentially malignant
- Malignant



Warning Signs of Neoplasm

Changes in bowel or bladder habits

A sore that will not heal

Unusual bleeding, discharge

Thickening or lump in breast or elsewhere

Indigestion, difficulty swallowing

Obvious change in wart or mole

Nagging cough, hoarseness

Uma Tiwari

Drug and Pharmaceutical Chemistry

M.Sc. I Semester

2016-2017

Paper – 104 Physical Pharmacy -I

Multiple Choice Questions :- **Marks :-10**

1. A real solution is that which
A] Obey Raoult's Law B]Does not Obey Raoult's Law C] Obey Henery's Law D] Does not Obey Henery's Law
2. Which of the following is true for a closed system?
A] Mass does not enter or leave the system B] Mass entering = mass leaving
C] Both a and b D] none of the mentioned
3. What is the H+ ion concentration in pure water?
A] $1*10^{-7}$m B] $1*10^{7}$m C]$1*10^{-14}$m D] $1*10\backslash^{14}$m
4. As the pKa of an acid increases, the acid will be :-
A] More weaker B] More stronger C] Converted to neutral solution D] Converted to basic solution
5. Buffers are mixtures of :-
A] Strong acid and strong base B] Strong acid and weak base C] Weak base and their conjugate acid D] Weak Weak acid and their conjugate base
6. The water level in the human body is regulated by the hormone
A] ACTH B] Oxytocin C] FSH D] Epinephrine
7. Thermal power plant work on
A] Carnot –Cycle B] Joule Cycle C] Rankine Cycle D] Otto Cycle
8. Who is father of physics and chemistry ?
A] Isaac Newton B] Antoine Lavosier C]Stewart Adams D] William T.G. Morton
9. Father of thermodynamics is –
A] Nicolas Leonard Sadi Carnot B] Rudolf Clausius
10. Who gave first law of thermodynamic
A] Rudolf Clausius 1850 B] Adolf Von Bayer.

10/10

Reshma Manshavaram

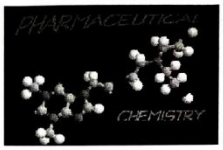
Teacher In charge :- Priyanka Khare

Faculty of Pharma Department

Difficulty Level : Moderate

Expected Average Score as per difficulty level =6/10

A] Nicolas Leonard Sadi Carnot B] Rudolf Clausius
10. Who gave first law of thermodynamic
A] Rudolf Clausius 1850 B] Adolf Von Bayer.



Drug and Pharmaceutical Chemistry

M.Sc. I Semester

2016-2017

Paper – 104 Physical Pharmacy -I

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A] More weaker B] More stronger C] Converted to neutral solution D] Converted to basic solution
5. Buffers are mixtures of :-
A] Strong acid and strong base B] Strong acid and weak base C] Weak base and their conjugate acid D] Weak Weak acid and their conjugate base
6. The water level in the human body is regulated by the hormone
A] ACTH B] Oxytocin C] FSH D] Epinephrine
7. Thermal power plant work on
A] Carnot –Cycle B] Joule Cycle C] Rankine Cycle D] Otto Cycle
8. Who is father of physics and chemistry ?
A] Isaac Newton B] Antoine Lavosier C]Stewart Adams D] William T.G. Morton
9. Father of thermodynamics is –
A] Nicolas Leonard Sadi Carnot B] Rudolf Clausius
10. Who gave first law of thermodynamic
A] Rudolf Clausius 1850 B] Adolf Von Bayer.

10/10

Teacher In charge :- Priyanka Khare

Faculty of Pharma Department

Difficulty Level : Moderate

Expected Average Score as per difficulty level =6/10

Govt. Madhav Science P.G. College Ujjain

CCE- Chalk Board Presentation

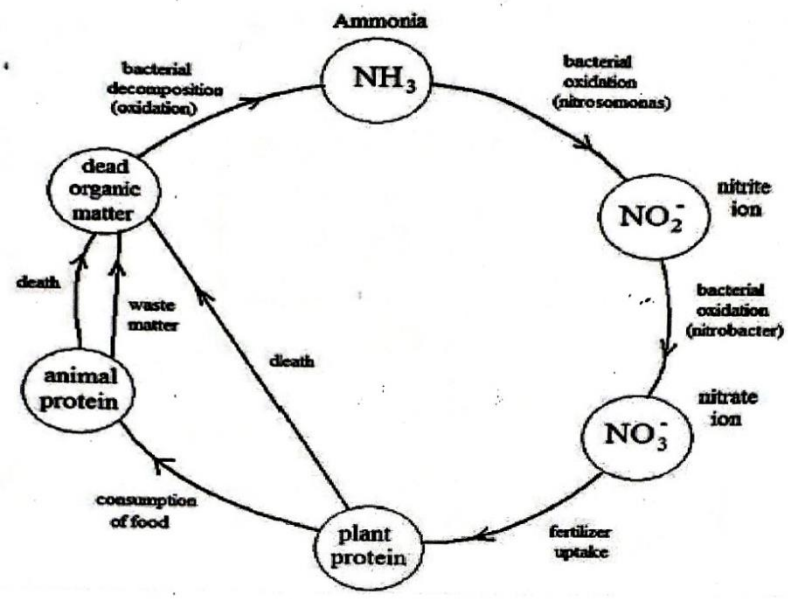
Session -2016-17

Topic- Nitrogen Cycle

Submitted to :-
Priyanka Khare

Submitted By:-
Mahendra Gehlot
M.Sc. II Sem
Drug and Pharmaceutical Chemistry

10/10



Nitrogen Cycle

Govt. Madhav Science P.G. College Ujjain

CCE- Chalk Board Presentation

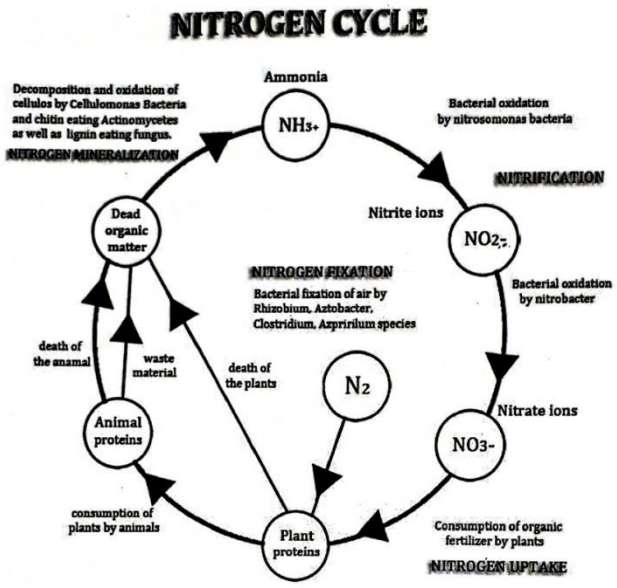
Session -2016-17

Topic- Nitrogen Cycle

Submitted to :-
Priyanka Khare

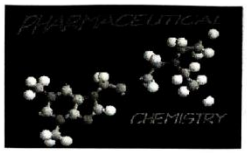
Submitted By:-
Upama Tiwari
M.Sc. II Sem
Drug and Pharmaceutical Chemistry

09/10



Nitrogen Cycle

Anjali tiwari



Drug and Pharmaceutical Chemistry
M.Sc. III Semester
2016-2017
Paper – 303 Medicinal Chemistry –I

Mode:- MCQ

Multiple Choice Questions :- **Marks :-10**

What mixtures of gases are used in anesthesia ?

A]O_2 & N_2O B] O_2& Co_2 C] Co_2 & N_2O D]O_2, Co_2&N_2o

2. Which of the Following is known as laughing gas ?

A] N_2O B] Co_2 C] B_2O D]O_2

3.Which Of the Following Local anesthetic Agent would be preferred in prolong- surgical procedure?

A] Bupivacaine B] Cocaine C]Lignocaine D]Prilocaine

4.It is Difficult to obtain local infiltration anesthesia in the presence o inflammation because of :

A] A decreased pH B] Increased Vascularity C] Oedema D]Pain

5. Which of the following is derived from the hemp plant "Cannabis Sativa"

A] Opium B] Marijuana C] MDMA D] Crak

6.A Synthetic form of opium was developed by Germany during WWII . This is known as ?

A] Prednisalone B] Cortisone C] Methadone D] Polyheroin

7.In biological treatment of substance abuse an example of a uses being weaned onto a weaker substance would be which of the following?

09/10

Vasudev soni

Drug and Pharmaceutical Chemistry
M.Sc. III Semester
2016-2017
Paper – 303 Medicinal Chemistry –I

Mode:- MCQ

Multiple Choice Questions :- **Marks :-10**

What mixtures of gases are used in anesthesia ?

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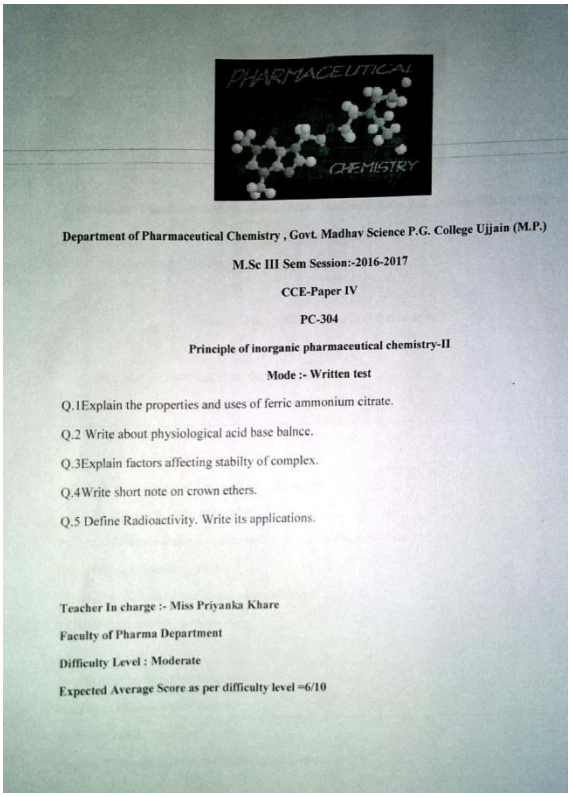
10/10



Department of Pharmaceutical Chemistry , Govt. Madhav Science P.G. College Ujjain (M.P.)

M.Sc III Sem Session:-2016-2017

CCE-Paper IV

PC-304

Principle of inorganic pharmaceutical chemistry-II

Mode :- Written test

Q.1Explain the properties and uses of ferric ammonium citrate.

Q.2 Write about physiological acid base balnce.

Q.3Explain factors affecting stabilty of complex.

Q.4Write short note on crown ethers.

Q.5 Define Radioactivity. Write its applications.

Teacher In charge :- Miss Priyanka Khare

Faculty of Pharma Department

Difficulty Level : Moderate

Expected Average Score as per difficulty level =6/10

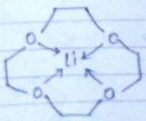
Q.1 Write a short note Crown ethers.

Ans Crown ethers are cyclic chemical compounds that consist of ring containing several ether groups. Most common ethers are oligomers of ethylene oxide. Important members of this series are tetramers (n=4), pentamer (n=5), hexamer (n=6). The term crown ether bound to a cation and crown sitting on a person's head.

Whenever this ether used as solvent cation ie– (+ve) part of a molecule trap by the ether and its (–ve) part anion is used for reaction.

Ex– 12 – Crown ether
15 – Crown ether
18 – Crown ether

12 – Crown ether



Nomenclature.

The first no. designates the ring size and second no. designates the no. of oxygen atom in the ring.

Govt. Madhav Science P.G. College Ujjain

सत्यं ज्ञानमनन्तम्

CCE- Chalk Board Presentation

Session -2016-17

Topic- Anti tubercular Drug

Submitted to :-
Priyanka Khare

Submitted By:-
Divya Gujar
M.Sc. IV Sem
Drug and Pharmaceutical Chemistry

09/10

Introduction

- Tuberculosis - most important communicable disease in the world.
- Mycobacteria are intrinsically resistant to most antibiotics
  - Grows more slowly than other bacteria – antibiotics active against **rapidly growing cells**
  - **lipid-rich mycobacterial cell wall** is impermeable to many agents
  - It grows inside macrophage – poorly penetrated by drugs
  - Excellent ability to develop resistance – Multiple Drug Resistant (MDR)

Govt. Madhav Science P.G. College Ujjain

सत्यं ज्ञानमनन्तम्

CCE- Chalk Board Presentation

Session -2016-17

Topic- Diuretics

Submitted to :-
Priyanka Khare

Submitted By:-
Anjali Tiwari
M.Sc. IV Sem
Drug and Pharmaceutical Chemistry

10/10

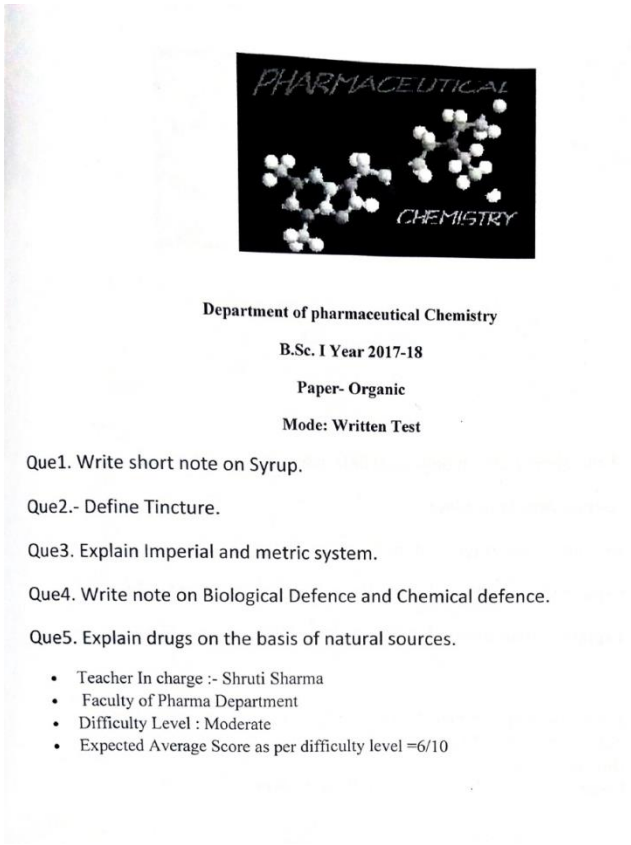
Classification of Diuretics

3. Weak or adjunctive diuretics

- ***Carbonic anhydrase Inhibitors*** — **Acetazolamide**
- ***Potassium sparing diuretics***
  - ***(i) Aldosterone antagonist*** — **Spironolactone**
  - ***(ii) Inhibitors of renal epithelial Na+ channel*** — **Triamterene, Amiloride**
- ***Osmotic diuretics*** — **Mannitol, Isosorbide, Glycerol**

2017-18

B.Sc. 1 Year



Department of pharmaceutical Chemistry

B.Sc. I Year 2017-18

Paper- Organic

Mode: Written Test

Que1. Write short note on Syrup.

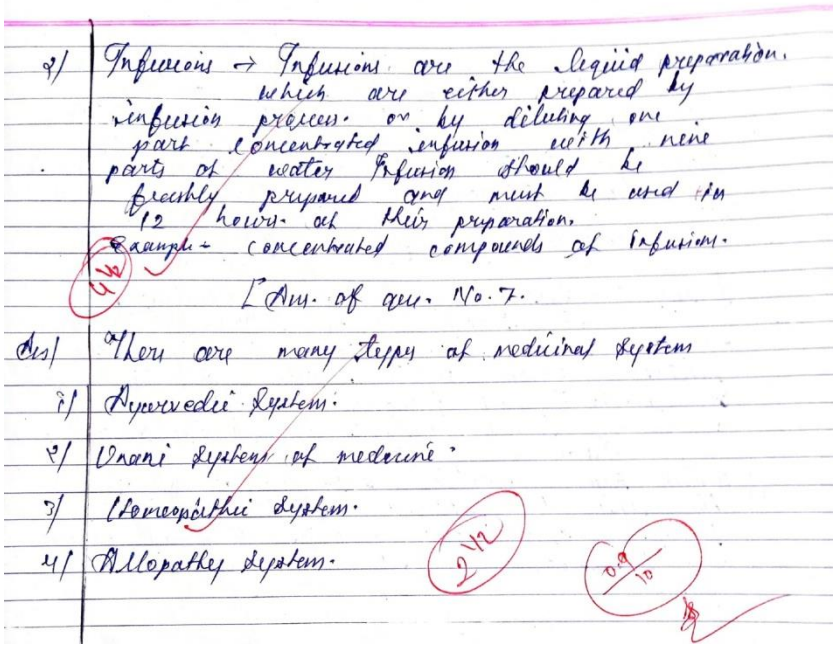
Que2.- Define Tincture.

Que3. Explain Imperial and metric system.

Que4. Write note on Biological Defence and Chemical defence.

Que5. Explain drugs on the basis of natural sources.

- Teacher In charge :- Shruti Sharma
- Faculty of Pharma Department
- Difficulty Level : Moderate
- Expected Average Score as per difficulty level =6/10



q/ Infusions → Infusions are the liquid preparation which are either prepared by infusion process. or by diluting one part concentrated infusion with nine parts of water Infusion should be freshly prepared and must be used in 12 hours of their preparation.
Example - concentrated compounds of infusions.
Ans. of que. No. 7.

Ans/ There are many types of medicinal systems
i/ Ayurvedic System.
ii/ Unani System of medicine.
iii/ Homeopathic System.
iv/ Allopathy System.

Key Points

- What is antibiotic
- Classification
- Use
- Misuse
- Resistance & Cross-resistance
- Possible side effects
- Characteristics of ideal antibiotic

Department of Pharmaceutical Chemistry

B.Sc. III Semester
Session -2017-2018
Paper:- Medicinal Chemistry
Mode:- Assignment

Marks :-15

Question -1 Give the classification of Local Anesthetics drugs.

Question -2 Write structure , synthesis and uses of Lignocaine..

Question -3 Give the classification of Anticovuslant Drugs .

Question-4 Write structure , synthesis and uses of Thiopental Sodium .

Question -5 Explain the SAR of Barbiturates Drug .

Teacher In charge :- Surabhi Shukla.

Faculty of Pharma Department

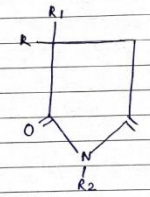
Difficulty Level : Moderate

Expected Average Score as per difficulty level =8/15

Date: / / Page no: 7

Drug Name	R	R_2
Chinytoin	C_6H_5	C_6H_5
Ethatoin	C_6H_5	H
Mephenytoin	C_6H_5	C_2H_5

c) Succinimides :-



14/15 Saluda

Drug name	R_1	R_2
Phenosuccinimide	C_6H_5	H
Meth succinimide	C_6H_5	CH_3
Etho succinimide	C_2H_5	CH_3

d) Benzodiazepines

Example :- diazepam , Lorazepam

Date: / / Page no:

Name :- Hemant Rathore

Class :- B.S.C IIIrd Sem.

Subject :- Medicinal Chemistry.

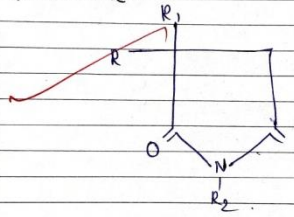
Session :- 2017-18

Mode :- Assignment

Date: / / Page no:

Drug Name	R	R_2
Phenytoin	C_6H_5	C_6H_5
Ethatoin	C_6H_5	H
Me Phenytoin	C_6H_5	C_2H_5

C Succinimides :-



14/15 Saluda

Drug Name	R_1	R_2
Phenosuccinimides	C_6H_5	H
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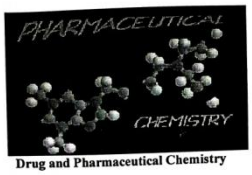
d) Benzodiazepines

Example :- diazepam , Lorazepam



Drug and Pharmaceutical Chemistry

M.Sc. I Semester

2017-2018

Paper – 104 Physical Pharmacy -I

Multiple Choice Questions :- **Marks :-10**

1.Addition of heat at constant pressure to a gas results in

A. Raising its temperature B. Raising its pressure

C. Raising its volume D. Raising its temperature and doing external work

2.Which of the following items is not a path function?

A. Heat B. Work

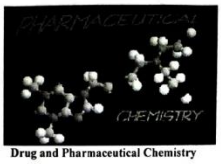
C. Kinetic energy D. Thermal conductivity

3.Mixture of ice and water form a

A. Closed system B. Open system

C. Isolated system D. Heterogeneous system

Manish Ralotiya



Drug and Pharmaceutical Chemistry

M.Sc. I Semester

2017-2018

Paper – 104 Physical Pharmacy -I

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A. Closed system B. Open system

C. Isolated system D. Heterogeneous system

09/10

5.The entropy may be expressed as a function of

A. Pressure and temperature B. Temperature and volume

C. Heat and work D. All of these

6. Which of the following variables controls the physical properties of a perfect gas

(a) pressure(b) temperature(c) volume(d) all of the above

7. A closed system is one in which

(a) mass does not cross boundaries of the system, though energy may do so
(b) mass crosses the boundary but not the energy
(c) neither mass nor energy crosses the boundaries of the system
(d) both energy and mass cross the boundaries of the system

8. Which of the following quantities is not the property of the system

(a) pressure(b) temperature(c) specific volume(d) heat

9.The term N.T.P. stands for

(a) nominal temperature and pressure(b) natural temperature and pressure
(c) normal temperature and pressure(d) normal thermodynamic practice

10.. In an isothermal process, the internal energy of gas molecules

(a) increases(b) decreases(c) remains constant
(d) may increase/decrease depending on the properties of gas

Teacher In charge :- Surabhi Shukla

Faculty of Pharma Department

Difficulty Level : Moderate

Expected Average Score as per difficulty level =6/10

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Teacher In charge :- Surabhi Shukla

Faculty of Pharma Department

Difficulty Level : Moderate

Expected Average Score as per difficulty level =6/10

Govt. Madhav Science P.G. College Ujjain

CCE- Chalk Board Presentation

Session -2017-18

Topic- Antacids

Submitted to :-
Surbhi Shukla

Submitted By:-
Kuldeep Arya
M.Sc. II Sem
Drug and Pharmaceutical Chemistry

09/10

Introduction to antacids

☑ Composition of antacids:

The hydroxide is the base most commonly employed in antacids,but carbonate,bicarbonate and trisilicate ions are also used. The therapeutic efficacy and adverse effects depend on the metallic ion with which the base is combined and this is usually aluminium, magnesium or sodium.

☑ Mode/mechanism of action of antacids:

Antacids act as weak alkaline bases. They neutralize the excess gastric hydrochloride and relieve pain of peptic ulcer by raising the pH of gastric contents to about 4 (pain occurs when pH falls below 3.5).

Govt. Madhav Science P.G. College Ujjain

CCE- Chalk Board Presentation

Session -2017-18

Topic-Antacids

Submitted to :-
Surbhi Shukla

Submitted By:-
Manish Ralotiya
M.Sc. II Sem
Drug and Pharmaceutical Chemistry

09/10

ANTACIDS

Antacids are substances which on ingestion react with the gastric acid and lowe contents. They produce a symptomatic relief of heartburn. Antacids are weak bases a pH above 4 by neutralising excess gastric hydrochloric acid.

Ideal characteristics of antacids:

- Not be absorbable or cause systemic alkalosis;
- not liberate carbon dioxide, and cause rebound hyperacidity;
- not interfere with absorption of food;
- not be a laxative or cause constipation:
- be quick acting and exert its effect over a long period of time;

Govt. Madhav Science P.G. College Ujjain

सत्यं ज्ञानमनन्तम्

CCE- Chalk Board Presentation

Session -2017-18

Topic- Anti tubercular Drug

Submitted to :-
Surbhi Shukla

Submitted By:-
Priyanka Chouhan
M.Sc. IV sem
Drug and Pharmaceutical Chemistry

09/10

CLASSIFICATION OF DRUGS USED IN ANTI-TUBERCULOSIS TREATMENT

FIRST LINE DRUGS	SECOND LINE DRUGS
ISONIAZIDE	AMIKACIN
RIFAMPIN	AMINOSALICYCLIC ACID
PYRAZINAMIDE	CAPREOMYCIN
ETHAMBUTOL	CIPROFLOXACIN
STREPTOMYCIN	CLOFAZIMINE
	CYCLOSERINE
	ETHIONAMIDE
	LEVOFLOXACIN
	RIFABUTIN
	RIFAPENTINE

Govt. Madhav Science P.G. College Ujjain

सत्यं ज्ञानमनन्तम्

CCE- Chalk Board Presentation

Session -2017-18

Topic- GIT[Gastro Intestinal Drugs]

Submitted to :-
Surbhi Shukla

Submitted By:-
Upma Tiwari
M.Sc. IV Sem
Drug and Pharmaceutical Chemistry

09/10

Classification of Antacids

Nonsystemic Antacids:

Antacids which are not absorbed from the gut and does not interrupt acid base balance (metabolic alkalosis) are called nonsystemic antacids.

Non systemic antacids are divided into-**Buffer antacid & Non-buffer antacid.**

Buffer antacid: They limit the rise in pH of the gastric contents to below neutrality.

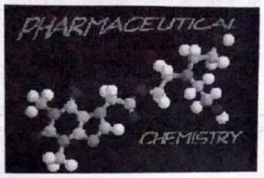
e.g. Aluminum Hydroxide Gel [$Al(OH)_3$], Magnesium hydroxide [$Mg(OH)_2$], Magnesium Trisilicate [$2MgO.3SiO_2.xH_2O$]

Non-buffer antacid: They potentially permit the elevation in pH even above neutrality.

e.g. Calcium carbonate [$CaCO_3$], Calcium phosphate [$Ca_3(PO_4)_2$], Magnesium oxide [MgO], Magnesium Carbonate [$MgCO_3$]

2018-19

B.Sc. 1st Year



Department of Pharmaceutical Chemistry , Govt. Madhav Science P.G. College Ujjain (M.P.)

B.Sc I Yrs Session:-2018-2019

Principle of inorganic pharmaceutical chemistry

Q.1 Write about impurities.

Q.2 Define accuracy and precision

Q.3Write short notes on indicators.

Q.4 Define masking and demasking.

Q.5 Write structural formula and uses of alum.

Teacher In charge :- Smt. Neha Jaiswal

Faculty of Pharma Department

Difficulty Level : Moderate

Expected Average Score as per difficulty level =6/10

Govt. Madhav Science P.G. College, Ujjain

Question No.	Marks Obtained
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
Total	
Out of	

Signature of Principal

Name : Akankasha Malviya

Father's Name : Kamlesh Malviya

Class : B.Sc Ist Year

Section : Pharmaceutical Chemistry

Subject : Inorganic Pharmaceutical chemistry

Date of Examination : 30/1/2019

Signature of Invigilator : [signature] Njaiswal

08/10

Signature of Valuer

Ques¹ Write about Impurities ?

Ans- Impurities are chemical substance inside a confined amount of ~~to~~ liquid, gas or, solid, which differ from the chemical composition of the material or compound.

Impurities are either naturally occuring or ~~ad~~ added during synthesis of a chemical or commercial product. During production, Impurities may be purposely, accidently, inevitably, or Incidentally added into the substance.

The levels of impurities in a material are generally defined in relative terms, Standards have been established by various organizations that attempt to define the permitted levels of various impurities in a manufactured product. ~~Strictly~~ Strickly speaking, then a material's level of purity can only be stated as being more or less pure than some other material.

Impurities can be destructive when they obstruct the working nature of the mate Examples ~~are~~ include ash and debris as in metals and leaf pieces in blank white papers. the removal of impurities is usually done chemically. for example, in the manufacturing of iron, ~~a~~ calcium carbonate is added to the ~~blast~~ blast fur to remove silicon dioxide from the ~~iron~~ iron ore. Zone refining is an economically important method for the purification of of semiconductors.

However, some kinds of impurities can be removed by ~~physi~~ physical means. A mixture of water and salt can be seperated by distillation, with water as ~~the~~ the distillate and salt as the solid ~~&~~ residue Impurities are ~~to~~ usually physically removed from liquids and gases. The Removal of of sand particles from metal ore is one example with solids.

Department of Pharmaceutical Chemistry

B.Sc. II Year
Session -2018-2019
Paper:- Medicinal Chemistry
Mode:- Assignment

Marks :-10

Question -1 Give the classification of General Anesthetics drugs.

Question -2 Write structure , synthesis and uses of Halothane.

Question -3 Write structure , synthesis and uses of Allobarbital .

Question-4 Write structure , synthesis and uses of Phenytoin Sodium .

Question -5 Explain the classification of Barbiturate Drug.

Teacher In charge :-Surbhi Shukla

Faculty of Pharma Department

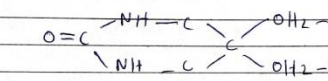
Difficulty Level : Moderate

Page no: 7

excreted by the kidney (they are generally used in insomnia and also as a pre-operative sedative. they also find their use in the treatment of convulsions when administered intravenously.

Eg:- Allobarbital, Butabarbitone, Amobarbital.

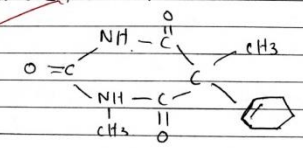
Allobarbital INN:-



Short acting Barbiturates:- the onset of action for short acting barbiturates falls with in 15 min and their hypnotic action 1-

Eg:- Hexobarbital., Penta-barbital sodium, Quinalbarbitone sodium.

Hexobarbital INN USAN:-

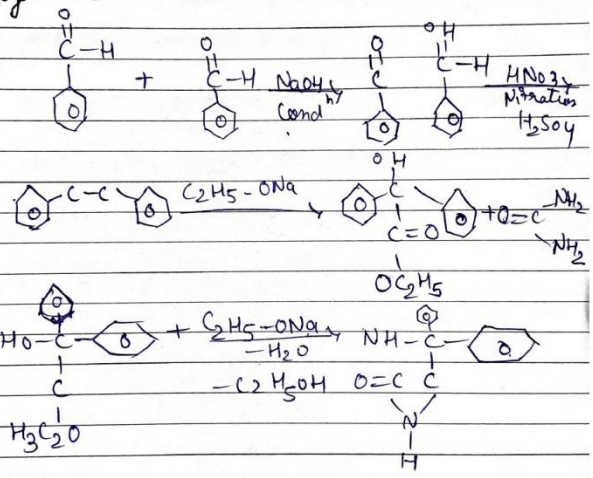


5-(1-cyclohexen-1-ye) 1,5-dimethyl barbituric acid

Page no:

Effect Chemical Name :- 5,5 diphenyl Hydantion 2-Sodium Salts

Synthesis :-



uses :- Phenytoin is used to control certain type of seizures Phenytoin is class of medication called anticonsultants

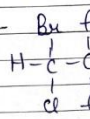
Page no:

Question - 2

Write Synthesis, Structure and uses of Halothane

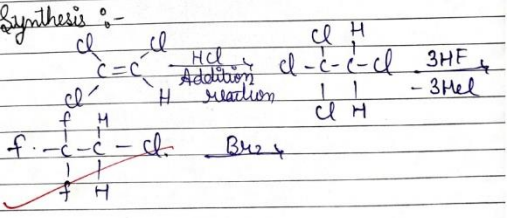
★ Formula :- $C_2HBrClF_3$

★ Structure :-



★ Chemical Name :- 2 Bromo, 2 chloro, 1,1,1 Trifluro ethane

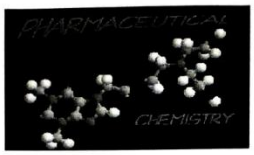
★ Synthesis :-



uses :-

- Pain reduction during Surgery. Procaine injection is an

Ajay Pal Singh



Drug and Pharmaceutical Chemistry

M.Sc. I Semester

2018-2019

Paper – 104 Physical Pharmacy -I

Multiple Choice Questions :- **Marks :-10**

1.A real solution is that which
A] Obey Raoult's Law B]Does not Obey Raoult's Law C] Obey Henery's Law D] Does not Obey Henery's Law
2.Which of the following is true for a closed system?
A] Mass does notenter or leave the system B] Mass entering = mass leaving
C] Both aand b D] none of the mentioned
3. What is the H+ ion concentration in pure water?
A]1*10-7m B] 1*107m C]1*10-14m D] 1*10\14m
4.As the pKa of an acid increases, the acid will be :-
A] More weaker B] More stronger C] Converted to neutral solution D] Converted to basic solution
5. Buffers are mixtures of :-
A] Strong acid and strong base B] Strong acid and weak base C] Weak base and their conjugate acid D] Weak Weak acid and their conjugate base
6.The water level in the human body is regulated by the hormone
A] ACTH B] Oxytocin C] FSH D] Epinephrine
7.Thermal power plant work on
A] Carnot –Cycle B] Joule Cycle C]Rankine Cycle D] Otto Cycle
8. Who is father of physics and chemistry ?
A] Isaac Newton B] Antoine Lavosier C]Stewart Adams D] William T.G. Morton
9.Father of thermodynamics is –

09/10

Jaydeep Singh

Aayush Sharma

Drug and Pharmaceutical Chemistry

M.Sc. I Semester

2018-2019

Paper – 104 Physical Pharmacy -I

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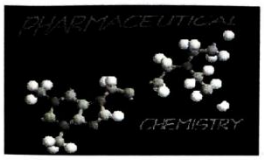
09/10

Mayank Kinshuk



Drug and Pharmaceutical Chemistry

M.Sc. I Semester

2018-2019

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Govt. Madhav Science P.G. College Ujjain

सत्यं ज्ञानमनन्तम्

CCE- Chalk Board Presentation

Session -2018-19

Topic- Dental Product

Submitted to :-
Surbhi Shukla

Submitted By:-
Mayank Kinshuk
M.Sc. II Sem
Drug and Pharmaceutical Chemistry

09
10

Classification:

- Preventive dental materials
- Restorative dental materials
- Auxiliary dental materials

Govt. Madhav Science P.G. College Ujjain

सत्यं ज्ञानमनन्तम्

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Session -2018-19

Topic- Dental Product

Submitted to :-
Surbhi Shukla

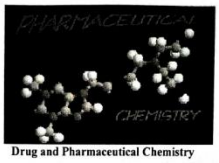
Submitted By:-
Jaydeep Singh
M.Sc. II Sem
Drug and Pharmaceutical Chemistry

09
10

What is Dental Material?

- **Dental materials** are specially fabricated materials, designed for use in dentistry. There are many different types of dental material, and their characteristics vary according to their intended purpose
- Likewise the structures in the oral cavity are lost or damaged due to disease such as caries and periodontal disease and trauma.
- The main goal in dentistry is to maintain or improve the quality of life through replacement or alteration of tooth structure.

Manish Rabatiya



Drug and Pharmaceutical Chemistry

M.Sc. III Semester
2018-2019

Paper – 303 Medicinal Chemistry –I

Mode:- MCQ

Multiple Choice Questions :- **Marks :-10**

1. What mixtures of gases are used in anesthesia ?

A] O_2 & N_2O B] O_2& Co_2 C] Co_2 & N_2O D]O_2, Co_2&N_2o

2. Which of the Following is known as laughing gas ?

A] N_2O B] Co_2 C] B_2O D]O_2

3. Which Of the Following Local anesthetic Agent would be preferred in prolong- surgical procedure ?

A] Bupivacaine B] Cocaine C]Lignocaine D]Prilocaine

4.It is Difficult to obtain local infiltration anesthesia in the presence o inflammation because of :

A] A decreased pH B] Increased Vascularity C] Oedema D]Pain

5. Which of the following is derived from the hemp plant "Cannabis Sativa"

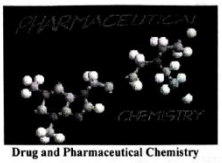
A] Opium B] Marijuana C] MDMA D] Crak

6.A Synthetic form of opium was developed by Germany during WWII . This is known as ?

A] Prednisalone B] Cortisone C] Methadone D] Polyheroin

09/10

Aarti Patidar



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2018-2019

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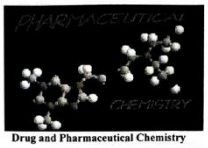
Anjali Kadwal



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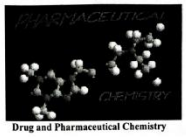
09/10

Kuldeep Arya



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2018-2019

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Govt. Madhav Science P.G. College Ujjain

सत्यं ज्ञानमनन्तम्

CCE- Chalk Board Presentation

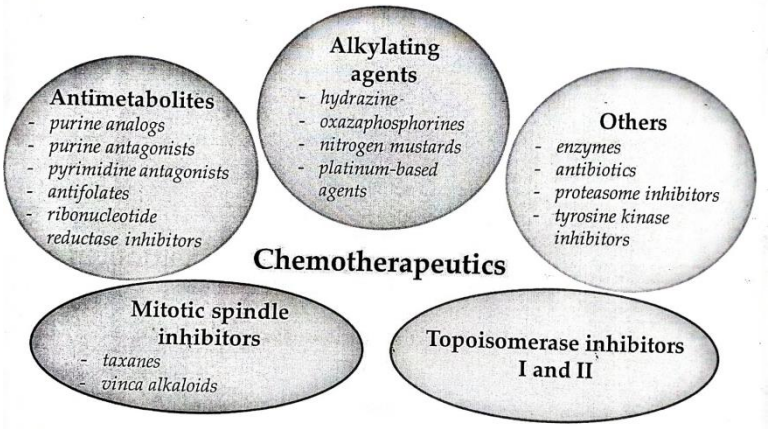
Session -2018-19

Topic- Chemotherapy

Submitted to :-
Surbhi Shukla

Submitted By:-
Seemab Khan
M.Sc. IV Sem
Drug and Pharmaceutical Chemistry

09/10



Govt. Madhav Science P.G. College Ujjain

सत्यं ज्ञानमनन्तम्

CCE- Chalk Board Presentation

Session -2018-19

Topic- Anti tubercular Drug

Submitted to :-
Surbhi Shukla

Submitted By:-
Anjali Lodwal
M.Sc. IV Sem
Drug and Pharmaceutical Chemistry

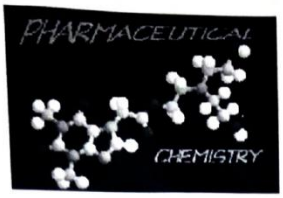
09/10

Introduction

- Tuberculosis - most important communicable disease in the world.
- Mycobacteria are intrinsically resistant to most antibiotics
  - Grows more slowly than other bacteria – antibiotics active against **rapidly growing cells**
  - **lipid-rich mycobacterial cell wall** is impermeable to many agents
  - It grows inside macrophage – poorly penetrated by drugs
  - Excellent ability to develop resistance – Multiple Drug Resistant (MDR)

2019-20

B.Sc. 1st Year



Department of pharmaceutical Chemistry

B.Sc. I Year 2019-20

Paper- Organic

Mode: Written Test

Que1. Discuss Imperial and metric system.

Que2.- Define Infusions.

Que3. Write note on Surface active agent.

Que4. Write short note on Syrup.

Que5. Explain different types of medicinal system.

- Teacher In charge :- Shruti Sharma
- Faculty of Pharma Department
- Difficulty Level : Moderate
- Expected Average Score as per difficulty level =6/10

Govt. Madhav Science P.G. College, Ujjain

Signature of Principal

Name : Himanshi Tiwari
Father's Name : Manish Tiwari
Class : B.Sc 1st year.
Section : B1.
Subject : Pharmaceutical chemistry
Date of Examination : 20/12/19.
Signature of Invigilator :

Signature of Valuer

08/10

Govt. Madhav Science P.G. College, Ujjain

Signature of Principal

Name : Rauf Parmar
Father's Name : Mr. Sitaramji Parmar
Class : BSC Ist year
Section : B2
Subject : Pharmaceutical chemistry
Date of Examination : 20/11/2019
Signature of Invigilator :

Signature of Valuer

08/10

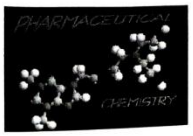
Govt. Madhav Science P.G. College, Ujjain

Signature of Principal

Name : Sajid khan
Father's Name : Rais khan
Class : B.S.C I year.
Section : B2
Subject : Pharmaceutical chem.
Date of Examination : 20 - 11 - 19.
Signature of Invigilator : Khan

Signature of Valuer

08/10



Department of Pharmaceutical Chemistry

B.Sc. II Year
Session -2019-2020
Paper:- Medicinal Chemistry
Mode:- Assignment

Marks :-10

Question -1 . Write structure , synthesis and uses of Aspirin.

Question -2. Write structure , synthesis and uses of Paracetamol.

Question -3. Write structure , synthesis and uses of Diphenylhydramine.

Question-4 . Give the classification of antipyretic and analgesic .

Question -5. Explain the SR of Morphine.

Teacher In charge :- Surbhi shukla

Faculty of Pharma Department

Difficulty Level : Moderate

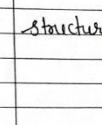
Expected Average Score as per difficulty level =6/10

Date:

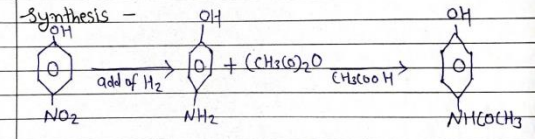
Qn. 2 Write , structure and uses of paracetamol?

PARACETAMOL

Structure –



Synthesis –



P-nitro Phenol — P-amino phenol — Acetic anhydride — paracetamol

Uses – Uses of paracetamol –

1) Paracetamol in used to reduce fever.

2) Treat mild to moderate pain from.

Headaches, menstrual periods, toothache, backaches, pains.

09/10 Soluble

Due to the property of sedative, antiamebic and antitussive property it is also used in sensational allergic conditions.

4. Give the classification of Antipyretic and Analgesic.

Ans: Antipyretic :- Antipyretic are substance that reduce fever. Antipyretic cause the Hypothalamus to overside a prostaglandin induced increases in temperature. The body then work to lower the temperature which results in a reduction in fever. (used to prevent or reduce fever).

eg: Aspirin, Ibuprofen.

Mechanism of Action:

CNS

↓

Hypothalamus Centre

↓

Heat Regulating Centre

↓

Heat Maintain.

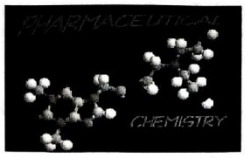
08/10 Soluble

Date: / / Page no: 7

7)	Alicyclic unsaturated linkage	$-CH=CH-$ replaced by CH_2-CH_2 group to obtained dihydromorphine	1-2 times more active than morphine
8)	Tertiary Nitrogen	$N-CH_3$ group is replaced by NH group to obtained (nor-morphin)	less active than morphine.
9)		$N-CH_3$ group is replaced by NCH_2CH_2–⟨O⟩ group	14 time more active than morphine.
10)		$N-CH_3$ group is replaced by N-allyl, methanyl group.	morphine antagonist.
11)		$N-CH_3$ is replaced by $N^+(CH_3)_4$ group	It is drug do not have analgesic properties.

09/10 Soluble

Nirmal Asnal



Drug and Pharmaceutical Chemistry

M.Sc. I Semester

2019-2020

Paper – 104 Physical Pharmacy -I

Multiple Choice Questions :- **Marks :-10**

1. The study of the flow of heat or any other form of energy into is called

A]Thermochemistry B] Thermokinetics C] Thermodynamics D] Thermochemical

2. Thermodynamic is applicable to

A] Microscopic system only B] Macroscopic system only C] Homogenous system only D] Heterogenous System

3. A system that can transfer neither matter nor energy to and from its surroundings is called

A] A closed system B] An isolated system C] An open System D] A homogenous system

4.Entropy is a measure …….. of the molecule of the system.

A] Concentration B] Velocity D] Zig –Zag motion D] Randomness or disorder

5. The entropy of the system increases in the order.

A] gas<liquid< solid B] gas<Solid <Liquid C] solid <gas<liquid D] None of these

6.Normality of a solution is the number of ….. of solute per litre o the solution .

A] Moles B] Equivalent C] Formula weight D] Mole fraction

7.When a non-volatile is dissolved in a pure solvent , the vapor pressure of the pure solvent

09/10

Kavita Rathore

Narayan Alotiya

Drug and Pharmaceutical Chemistry

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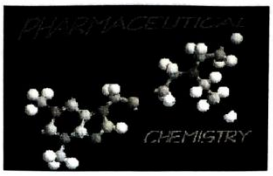
Maya Solanki



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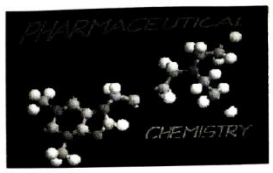

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CCE- Chalk Board Presentation

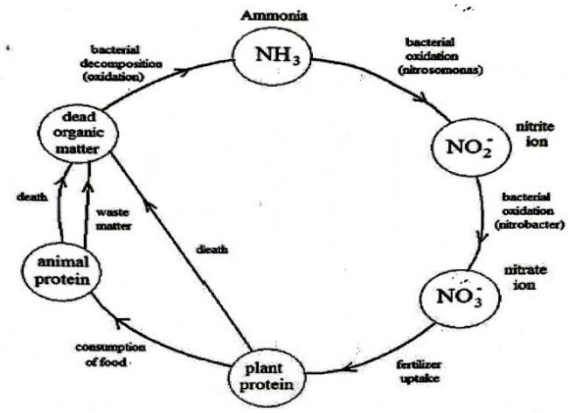
Session -2019-20

Topic- Nirogen Cycle

Submitted to :-
Surbhi Shukla

Submitted By:-
Shubham Pal
M.Sc. II Sem
Drug and Pharmaceutical Chemistry

09/10



Govt. Madhav Science P.G. College Ujjain

सत्यं ज्ञानमनन्तम्

CCE- Chalk Board Presentation

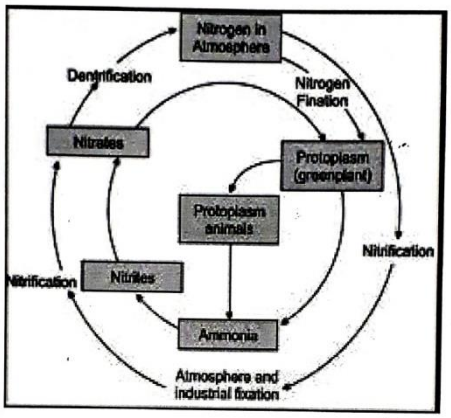
Session -2019-20

Topic- Nitrogen Fixation

Submitted to :-
Surbhi Shukla

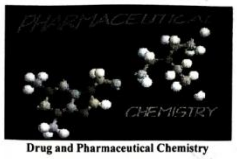
Submitted By:-
Maya Solanki
M.Sc. II Sem
Drug and Pharmaceutical Chemistry

08/10



Nitrogen Cycle

Mayank Kinshuk



Drug and Pharmaceutical Chemistry

M.Sc. III Semester

2019-2020

Paper – 303 Medicinal Chemistry –I

Mode:- MCQ

Multiple Choice Questions :- **Marks :-10**

1.The major route of elimination of the volatile general anesthetics is via

A] Kidneys B] Skin C] Lungs D] Liver

2. Anesthesia of mucous membrane is called

A] Infiltration Anesthesia B] Filed Block Anesthesia C]Nerve Block Anesthesia D] Topical Anesthesia

3. Which are of the following belongs to long acting –barbiturate?

A] Pentobarbital B]Phenobarbital C] Thiopental D] Hexabarbital

4. One of the following belongs to imidazoline-2,4-dione class

A]Phenytoin B]Trimethadione C] Phenasuxmide D]Paramethadione

5. The B_1 receptors are located in .....

A] Heart B] Lungs C] Kidney D] Adrenal Gland

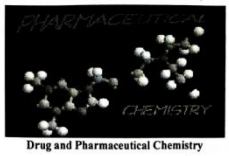
6.3,4-dihydroxr-1-[isopropylamine] methyl benzyl alcohol is

A] Adrenaline B]Propanolol C] Phenylephrine D] Isoprenaline

7. Acetyl Choline is biosynthesized from

08/10

Jaydeep Singh



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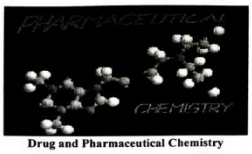
Ayush Sharma



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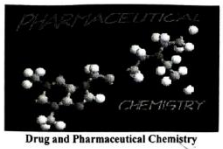
Ajay Pal Singh



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Govt. Madhav Science P.G. College Ujjain

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CCE- Chalk Board Presentation

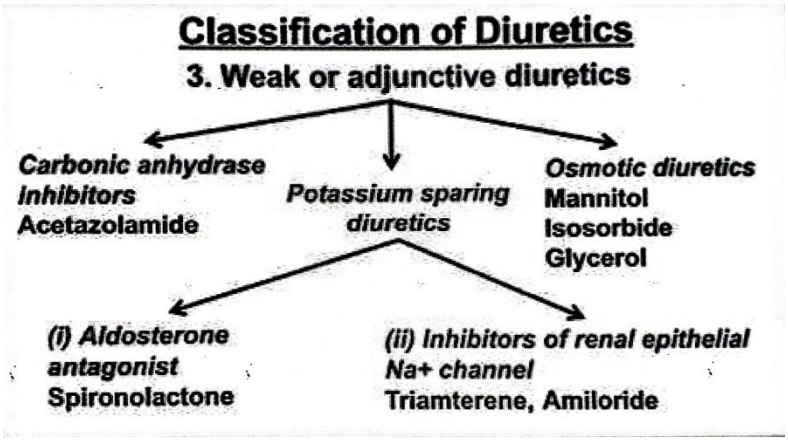
Session -2019-20

Topic- Diuretics

Submitted to :-
Surbhi Shukla

Submitted By:-
Vishnu Chouhan
M.Sc. IV Sem
Drug and Pharmaceutical Chemistry

09/10



Govt. Madhav Science P.G. College Ujjain

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CCE- Chalk Board Presentation

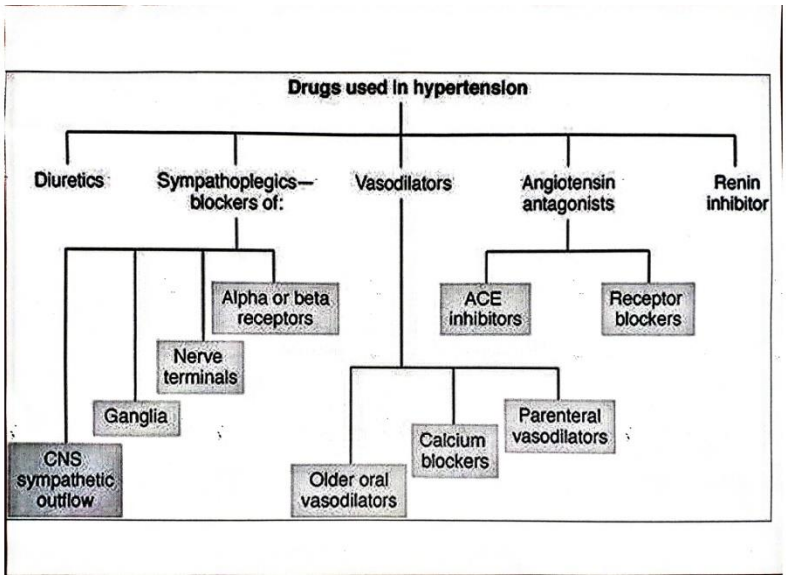
Session -2019-20

Topic- Antihypertensive

Submitted to :-
Surbhi Shukla

Submitted By:-
Aayush Sharma
M.Sc. IV Sem
Drug and Pharmaceutical Chemistry

08/10



BCA

CCE
BCA

Sr. No.	Classes	Session	CCE Mode
1	BCA I SEM	2015-16	**PRESENTASTION**
2	BCA II SEM	2015-16	**MCQ**
3	BCA III SEM	2015-16	**MCQ**
4			

Sr. No.	Classes	Session	CCE Mode
1	BCA I SEM	2016-17	**PRESENTASTION**
2	BCA II SEM	2016-17	**PRESENTASTION**
3	BCA III SEM	2016-17	**PRESENTASTION**
4			

Sr. No.	Classes	Session	CCE Mode
1	BCA I year	2017-18	**PRESENTASTION**
2	BCA II year	2017-18	**PRESENTASTION**
3	BCA III year	2017-18	**PRESENTASTION**
4			

CCE
BCA

Sr. No.	Classes	Session	CCE Mode
1	BCA I year	2018-19	**PRESENTASTION**
2	BCA II year	2018-19	**PRESENTASTION**
3	BCA III year	2018-19	**PRESENTASTION**
4			

CCE
BCA

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1	BCA I year	2019-20	**MCQ**
2	BCA II year	2019-20	**MCQ**
3	BCA III year	2019-20	**MCQ**

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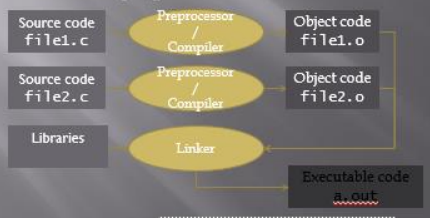
BCA 1st Year.
Mode: PRESENTASTION
Session: 2015-16

Separate compilation

- A C program consists of source code in one or more files
- Each source file is run through the preprocessor and compiler, resulting in a file containing object code
- Object files are tied together by the linker to form a single executable program



Separate compilation

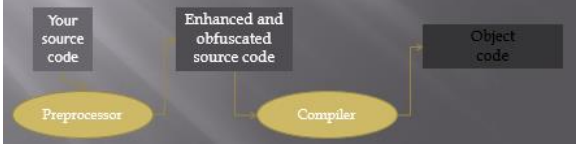
- Advantage: Quicker compilation
  - When modifying a program, a programmer typically edits only a few source code files at a time.
  - With separate compilation, only the files that have been edited since the last compilation need to be recompiled when re-building the program.
  - For very large programs, this can save a lot of time.

How to compile (UNIX)

- To compile and link a C program that is contained entirely in one source file:
  `cc program.c`
  - The executable program is called `a.out` by default.
    If you don't like this name, choose another using the `-o` option:
    `cc program.c -o exciting_executable`
- To compile and link several C source files:
  `cc main.c extra.c more.c`
  - This will produce object (`.o`) files, that you can use in a later compilation:
    `cc main.o extra.o more.c`
  - Here, only `more.c` will be compiled – the `main.o` and `extra.o` files will be used for linking.
- To produce object files, without linking, use `-c`:
  `cc -c main.c extra.c more.c`

The preprocessor

- The preprocessor takes your source code and – following certain directives that you give it – tweaks it in various ways before compilation.
- A directive is given as a line of source code starting with the # symbol
- The preprocessor works in a very crude, "word-processor" way, simply cutting and pasting – it doesn't really know anything about C!



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A GRADE ACCREDITED THROUGH NAAC
DST-FIST COLLEGE

BCA II Year.
Mode: MCQ
Session: 2015-16

Student Name ABHISHEK YADAV

BCA 2nd YEAR SUBJECT –Pc Package Total marks -10

8/10

1. Which is not a font style ?
A. Bold
B. Superscript
C. Italic
D. Regula

2. What is gutter margin ?
A. Margin that is added to right margin when printing
B. Margin that is added to the left margin when printing
C. Margin that is added to the outside of the page when printing
D. Margin that is added to the binding side of page when printing

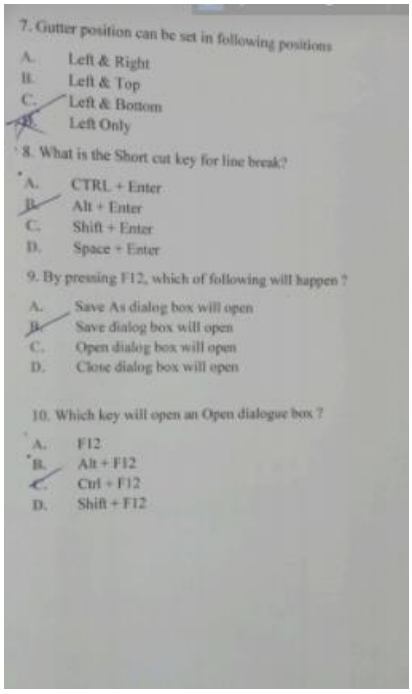
3. Landscape is ?
A. A font style
B. Paper Size
C. Page Layout
D. Page Orientation

4. Typeface option will come under which menu ?
A. Edit
B. View
C. Format
D. Tools

5. Background color on a document is not visible in ?
A. Web layout view
B. Print Preview
C. Reading View
D. Print Layout view

6. What is a portion of a document in which you set certain page formatting options ?
Page Setup
A. Section
B. Page
C. Document

Cordinator B.C.A.

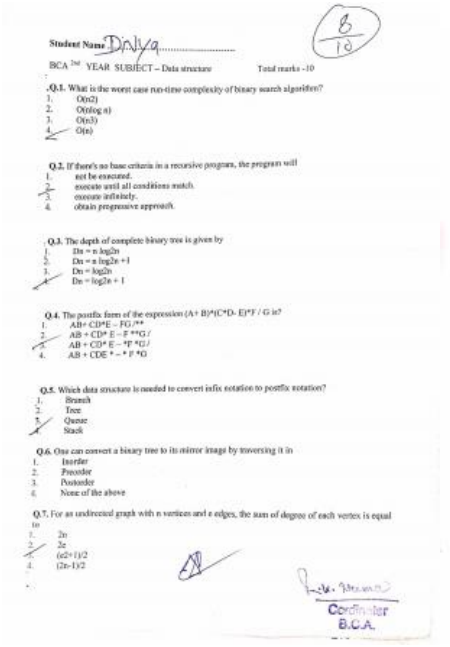


7. Gutter position can be set in following positions
A. Left & Right
B. Left & Top
C. Left & Bottom
D. Left Only

8. What is the Short cut key for line break?
A. CTRL + Enter
B. Alt + Enter
C. Shift + Enter
D. Space + Enter

9. By pressing F12, which of following will happen ?
A. Save As dialog box will open
B. Save dialog box will open
C. Open dialog box will open
D. Close dialog box will open

10. Which key will open an Open dialogue box ?
A. F12
B. Alt + F12
C. Ctrl + F12
D. Shift + F12



Student Name Divya

BCA 2nd YEAR SUBJECT – Data structure Total marks -10

8/10

Q.1. What is the worst case run-time complexity of binary search algorithm?
1. O(n2)
2. O(nlog n)
3. O(n3)
4. O(n)

Q.2. If there's no base criteria in a recursive program, the program will
1. not be executed.
2. execute until all conditions match.
3. execute infinitely.
4. obtain progressive approach.

Q.3. The depth of complete binary tree is given by
1. Dn = n log2n
2. Dn = n log2n +1
3. Dn = log2n
4. Dn = log2n + 1

Q.4. The postfix form of the expression (A+ B)*(C*D- E)*F / G is?
1. AB+ CD*E – FG /**
2. AB + CD* E – F **G /
3. AB + CD* E – *F *G /
4. AB + CDE * – * F *G

Q.5. Which data structure is needed to convert infix notation to postfix notation?
1. Branch
2. Tree
3. Queue
4. Stack

Q.6. One can convert a binary tree to its mirror image by traversing it in
1. Inorder
2. Preorder
3. Postorder
4. None of the above

Q.7. For an undirected graph with n vertices and e edges, the sum of degree of each vertex is equal to
1. 2n
2. 2e
3. (e2+1)/2
4. (2n-1)/2

Q.8. A data structure in which elements can be inserted or deleted at/from both the ends but not in the middle is?
1. Queue
2. Circular queue
3. Dequeue
4. Priority queue

Q.9. What would be the asymptotic time complexity to add a node at the end of singly linked list, if the pointer is initially pointing to the head of the list?
1. O(1)
2. O(n)
3. O(n)
4. θ(1)

Q.10. Consider the following definition in c programming language

```
struct node
{
    int data;
    struct node * next;
}
typedef struct node NODE;
NODE *ptr;
```

Which of the following c code is used to create new node?
1. ptr = (NODE*)malloc(sizeof(NODE));
2. ptr = (NODE*)malloc(NODE);
3. ptr = (NODE*)malloc(sizeof(NODE*));
4. ptr = (NODE)malloc(sizeof(NODE));

Cordinator B.C.A.

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A GRADE ACCREDITED THROUGH NAAC
DST-FIST COLLEGE

BCA III Year.

Mode: MCQ

Session: 2015-16

Student Name Pooja Rana

BCA 3rd YEAR SUBJECT –ERP & OB Total marks -10

1. Which of the following describes an ERP system?
A) ERP systems provide a foundation for collaboration between departments
B) ERP systems enable people in different business areas to communicate
C) ERP systems have been widely adopted in large organizations to store critical knowledge used to make the decisions that drive the organization's performance
D) All of the above

2. What is at the heart of any ERP system?
A) Information
B) Employees
C) Customers
D) Database

3. What must a system do to qualify as a true ERP solution?
A) Be flexible
B) Be modular and closed
C) Extend within the company
D) All of the above

4. Which of the following is a reason for ERPs explosive growth?
A) ERP is a logical solution to the mess of incompatible applications
B) ERP addresses the need for global information sharing and reporting
C) ERP is used to avoid the pain and expense of fixing legacy systems
D) All of the above

5. Which of the following occurs when everyone involved in sourcing, producing, and delivering the company's product works with the same information?
A) Eliminates redundancies
B) Cuts down wasted time
C) Removes misinformation
D) All of the above

6. What are several different types of software, which sit in the middle of and provide connectivity between two or more software applications?
A) Middleware
B) Enterprise application integration middleware
C) Automated business process
D) e-business infrastructure

7. What is one of the key resources of every organization, in today's competitive business environment?
a. Employee
b. Information
c. ERP
d. Database

Coordinator BCA

8. Who are the primary users of SCM systems?
A) Sales, marketing, customer service
B) Accounting, finance, logistics, and production
C) Customers, resellers, partners, suppliers, and distributors
D) All of the above

9. What are the primary business benefits of an ERP system?
A) Sales forecasts, sales strategies, and marketing campaigns
B) Market demand, resource and capacity constraints, and real-time scheduling
C) Forecasting, planning, purchasing, material management, warehousing, inventory, and distribution
D) All of the above

10. Who are the primary users of ERP systems?
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Student Name Rekha Yadav

BCA 3rd YEAR SUBJECT – AI&Expert system Total marks -10

1. Who is the father of Artificial Intelligence?
A. Doug Cutting
B. John McCarthy
C. William S.
D. Rasmus Lerdorf

2. What are the main goals of AI?
A. To Create Expert Systems
B. To Implement Human Intelligence in Machines
C. Both A and B
D. None of the Above

3. Which of the following areas can contribute to build an intelligent system?
A. Philosophy
B. Biology
C. Sociology
D. All of the above

4. A computer program with AI can not answer the generic questions it is meant to solve.
A. TRUE
B. FALSE
C. AI is not used to answer question
D. None of the Above

5. Which of the following is not the type of AI?
A. Reactive machines
B. Unlimited memory
C. Theory of mind
D. Self-awareness

6. Which of the following is an application of AI?
A. Gaming
B. Expert Systems
C. Vision Systems
D. All of the above

7. In which university the first demontration of AI program run?
A. Carnegie Mellon University
B. Oxford University
C. Cambridge University
D. Stanford University

8. Expert Ease was developed under the direction of _____
A. John McCarthy
B. Donald Michie
C. Lofti Zadeh
D. Alan Turing

9. What is Artificial intelligence?
A. Putting your intelligence into Computer
B. Programming with your own intelligence
C. Making a Machine intelligent
D. Playing a Game

10. Which of the following, is a component of an expert system?
A. inference engine
B. knowledge base
C. user interface
D. All of the above

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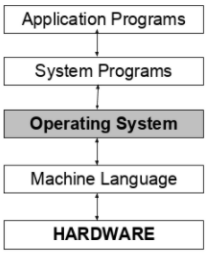
BCA 1st Year.
Mode: PRESENTASTION
Session: 2016-17

1.1 General Definition

- The OS manages these resources and allocates them to specific programs and users.
- With the management of the OS, a programmer is rid of difficult hardware considerations.
- An OS provides services for
  - Processor Management
  - Memory Management
  - File Management
  - Device Management
  - Concurrency Control

1.1 General Definition

- Another aspect for the usage of OS is that; it is used as a *predefined library* for hardware-software interaction.
- This is why, system programs apply to the installed OS since they cannot reach hardware directly.



1.1 General Definition

- Since we have an already written library, namely the OS, to add two numbers we simply write the following line to our program:

  c = a + b ;

1.1 General Definition

- in a system where there is no OS installed, we should consider some hardware work as:
  (Assuming an MC 6800 computer hardware)

```
LDAA $80  Loading the number at memory location 80
LDAB $81  Loading the number at memory location 81
ADDB      Adding these two numbers
STAA $55  Storing the sum to memory location 55
```

- As seen, we considered memory locations and used our hardware knowledge of the system.

1.1 General Definition

- In an OS installed machine, since we have an intermediate layer, our programs obtain *some advantage of mobility* by not dealing with hardware.
- For example, the above program segment would not work for an 8086 machine, where as the

  "c = a + b ;"

  syntax will be suitable for both.

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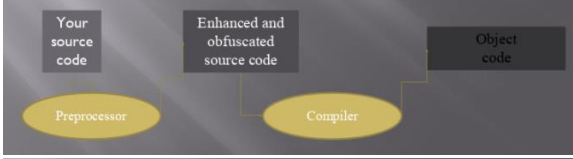

Separate compilation

Advantage: Quicker compilation

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How to compile (UNIX)

- To compile and link a C program that is contained entirely in one source file:
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  - The executable program is called a.out by default.
  If you don't like this name, choose another using the –o option:
  cc program.c –o exciting_executable
- To compile and link several C source files:
  cc main.c extra.c more.c
  - This will produce object (.o) files, that you can use in a later compilation:
  cc main.o extra.o more.c
  - Here, only more.c will be compiled – the main.o and extra.o files will be used for linking.
- To produce object files, without linking, use -c:
  cc –c main.c extra.c more.c

A first program: Text rearranger

- Input
  - First line: pairs of nonnegative integers, separated by whitespace, then terminated by a negative integer
    $x_1\ y_1\ x_2\ y_2 \ldots x_n\ y_n\ -1$
  - Each subsequent line: a string of characters
- Output
  - For each string S, output substrings of S:
    - First, the substring starting at location x_1 and ending at y_1;
    - Next, the substring starting at location x_2 and ending at y_2;
    - …
    - Finally, the substring starting at location x_n and ending at x_n.

Sample input/output

- Initial input: 0 2 5 7 10 12 -1
- Next input line: deep C diving
- Output: deeC ding
- Next input line: excitement!
- Output: exceme!
- *… continue ad nauseum …*
- Terminate with ctrl-D (signals end of keyboard input)

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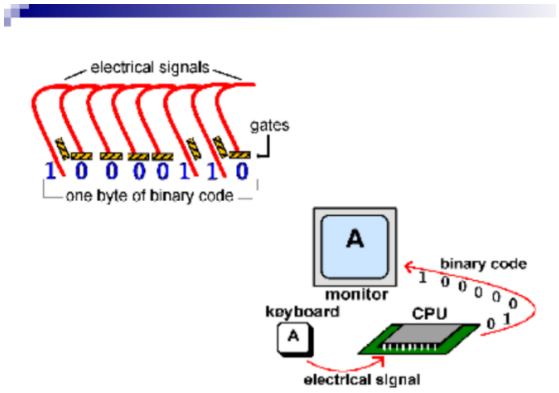
A GRADE ACCREDITED THROUGH NAAC
DST-FIST COLLEGE

BCA III Year.
Mode: PRESENTASTION
Session: 2016-17

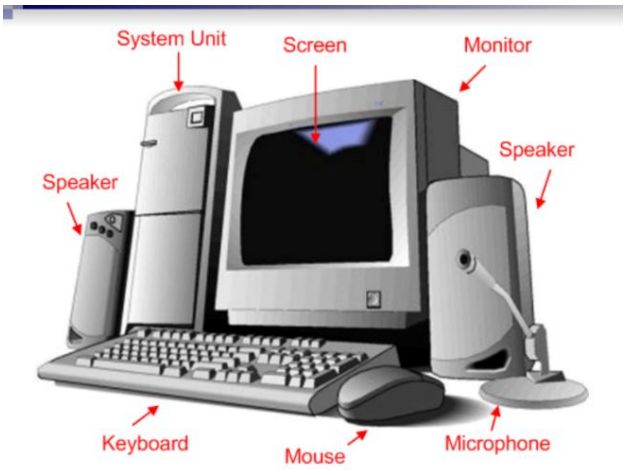


Basic Units of Measurement

- 1,000 bytes =1 kilobyte (K or KB)
  1,000 KB =1 megabyte (MB)
  1,000 MB =1 gigabyte (GB)
  1,000 GB =1 Terabyte (TB)

BASIC PC HARDWARE

- HARDWARE is the tangible part of a computer system.



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A GRADE ACCREDITED THROUGH NAAC
DST-FIST COLLEGE

BCA 1st Year.
Mode: PRESENTASTION
Session: 2017-18

Fundamental of computer guided by –
Sy.Er.Sumanshu Sharma

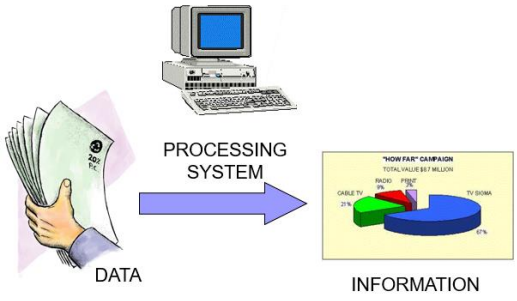
Mohak Dikshit,Nidhi chouhan,Ganesh panwar, ritesh gome,ritika yadav

Information Processing System

- DATA is a collection of independent and unorganized facts.
- INFORMATION is the processed and organized data presented in a meaningful form.
- DATA PROCESSING is the course of doing things in a sequence of steps.

Information Processing System

- COMPUTER is an electronic machine that follows a set of instructions in order that it may be able to accept and gather data and transform these into information.



Three Major Components of an Information Processing System

- HARDWARE is the tangible part of a computer system.
- SOFTWARE is the non-tangible part that tells the computer how to do its job.
- PEOPLEWARE refer to people who use and operate the computer system, write computer programs, and analyze and design the information system.

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BCA II Year.
Mode: PRESENTASTION
Session: 2017-18

INTRODUCTION TO C
SESSION 2017-18
BCA 1 YEAR
GUIDED BY
DR. NITIN TIWARI

Mohak Dikshit,Nidhi chouhan,Ganesh panwar, ritesh gome,ritika yadav

C: History

- Developed in the 1970s – in conjunction with development of UNIX operating system
  - When writing an OS kernel, efficiency is crucial
    This requires low-level access to the underlying hardware:
    - e.g. programmer can leverage knowledge of how data is laid out in memory, to enable faster data access
  - UNIX originally written in low-level assembly language – but there were problems:
    - No structured programming (e.g. encapsulating routines as "functions", "methods", etc.) – code hard to maintain
    - Code worked only for particular hardware – not portable

C: Characteristics

- C takes a middle path between low-level assembly language…
  - Direct access to memory layout through pointer manipulation
  - Concise syntax, small set of keywords
- … and a high-level programming language like Java:
  - Block structure
  - Some encapsulation of code, via functions
  - Type checking (pretty weak)

Footer 3

C: Dangers

- C is not object oriented!
  - Can't "hide" data as "private" or "protected" fields
  - You can follow standards to write C code that looks object-oriented, but you have to be disciplined – will the other people working on your code also be disciplined?
- C has portability issues
  - Low-level "tricks" may make your C code run well on one platform – but the tricks might not work elsewhere
- The compiler and runtime system will rarely stop your C program from doing stupid/bad things
  - Compile-time type checking is weak
  - No run-time checks for array bounds errors, etc. like in Java

Separate compilation

- A C program consists of source code in one or more files
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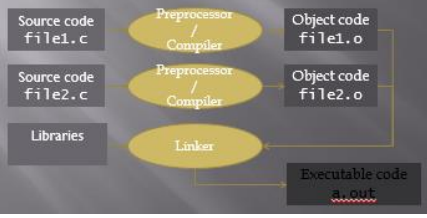

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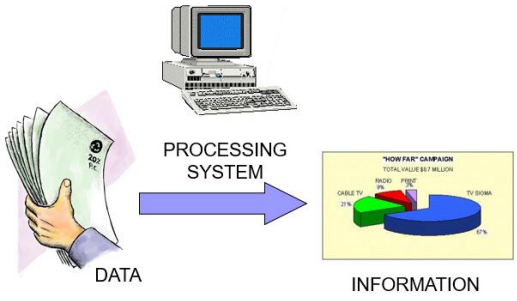

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Mode: PRESENTASTION
Session: 2018-19

INTRODUCTION TO C
SESSION 2018-19
BCA 1 YEAR
GUIDED BY
DR. NITIN TIWARI

Parvanshi panchal , sujata, charchit mishra,badal, ayushi bhavsar
BCA

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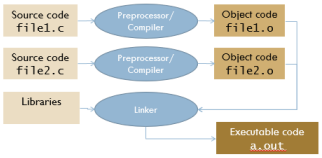

Separate compilation

- Advantage: Quicker compilation
  - When modifying a program, a programmer typically edits only a few source code files at a time.
  - With separate compilation, only the files that have been edited since the last compilation need to be recompiled when re-building the program.
  - For very large programs, this can save a lot of time.

How to compile (UNIX)

- To compile and link a C program that is contained entirely in one source file:
  `cc program.c`
  - The executable program is called `a.out` by default.
    If you don't like this name, choose another using the `-o` option:
    `cc program.c -o exciting_executable`
- To compile and link several C source files:
  `cc main.c extra.c more.c`
  - This will produce object (`.o`) files, that you can use in a later compilation:
    `cc main.o extra.o more.c`
  - Here, only `more.c` will be compiled – the `main.o` and `extra.o` files will be used for linking.
- To produce object files, without linking, use `-c`:
  `cc -c main.c extra.c more.c`

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B.Sc. 2nd Year.
Mode: PRESENTASTION
Session: 2018-19

BCA 2nd year
session 2018-19

guided to — Sy.Er.Sumanshu Sharma

Object-Oriented Analysis and Design
Mohak Dikshit,Nidhi chouhan,Ganesh panwar, ritesh gome,ritika yadav

Disclaimer

- Slides come from a variety of sources:
  - Craig Larman-developed slides; author of this classic textbook.
  - Dr. Constantinos Constantinides, University of London
  - Slides from the University of Pittsburg
  - Slides from many of my existing slides on these same topics
  - New slides from sources unknown...

- Chapter one covers a host of many topics central to today's technologies.
- These skills are essential in today's professional community.
- We will talk about (in some detail) iterative development, evolutionary development, the Unified Process, agile approaches, UML,
- Later on we will advance into more complex concepts that address framework design and architectural analysis.
- Please note that the materials are meant to be foundational.

But it is far more essential to 'think' in terms of **objects** as providing '**services**' and accommodating '**responsibilities**.'

Discuss: What is meant by 'services?' How indicated?
- How might you think these 'services' impact the design of classes?
- How might a client access these services?
- What is encapsulation? How does it relate to reusability? Self-governance? Design?

Discuss: What is meant by 'responsibilities?'
- Encapsulation of data and services?

- **Object-Oriented Analysis (Overview)**
  - An **investigation** of the **problem** (rather than how a solution is defined)
  - During OO analysis, there is an emphasis on finding and describing the objects (or concepts) in the **problem domain**.
  - For example, concepts in a Library Information System include *Book*, and *Library*.
  - High level views found in the application domain.
  - Oftentimes called **domain objects; entities.**

Thinking in Terms of Objects and UML - 4

- **Object-Oriented Design**
  - Emphasizes a conceptual **solution** that fulfills the requirements.
  - Need to define software **objects** and how they **collaborate** to meet the requirements.
  - For example, in the Library Information System, a *Book* software object may have a *title* attribute and a *getChapter* method.
    - What are the methods needed to process the attributes?
- Designs are **implemented** in a programming language.
  - In the example, we will have a *Book* class in Java.

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B.Sc. III Year.
Mode: PRESENTASTION
Session: 2017-18

INTRODUCTION TO
OPERATING SYSTEMS
Guided by –
Soft. Er. Jayant Mishra Sir

Mohak Dikshit,Nidhi chouhan,Ganesh panwar, dhesh gama,ritika yadav

1.1 General Definition

- An OS is a program which acts as an *interface* between computer system users and the computer hardware.
- It provides a user-friendly environment in which a user may easily develop and execute programs.
- Otherwise, hardware knowledge would be mandatory for computer programming.
- So, it can be said that an OS hides the complexity of hardware from uninterested users.

1.1 General Definition

- In general, a computer system has some resources which may be utilized to solve a problem. They are
  - Memory
  - Processor(s)
  - I/O
  - File System
  - etc.

1.1 General Definition

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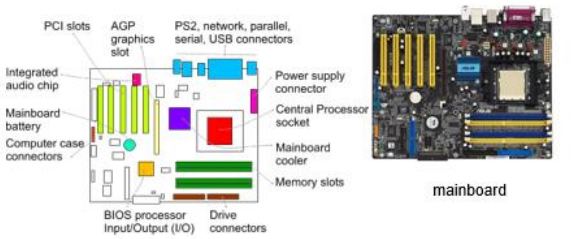

mainboard

processor

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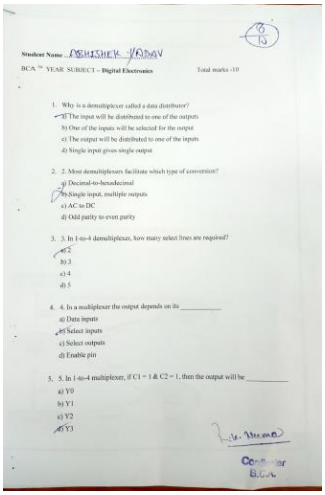
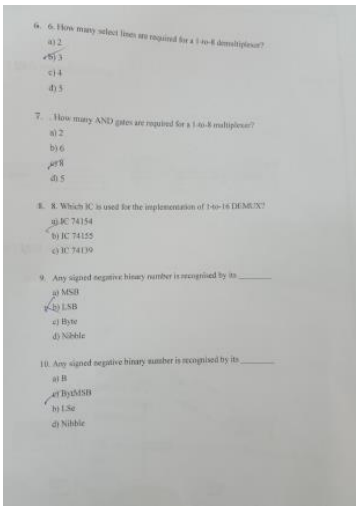
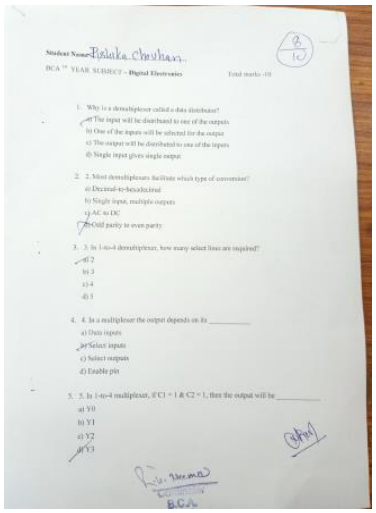
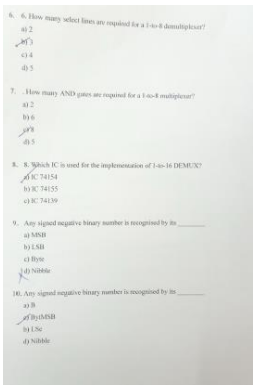
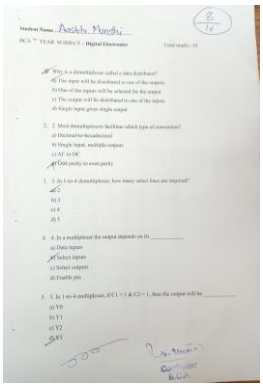
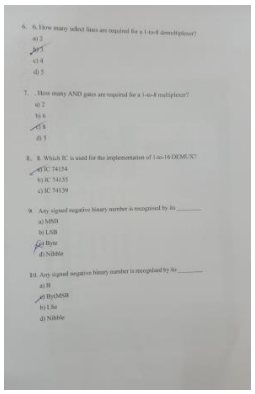
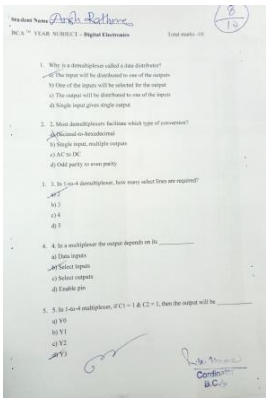

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BCA II YEAR.

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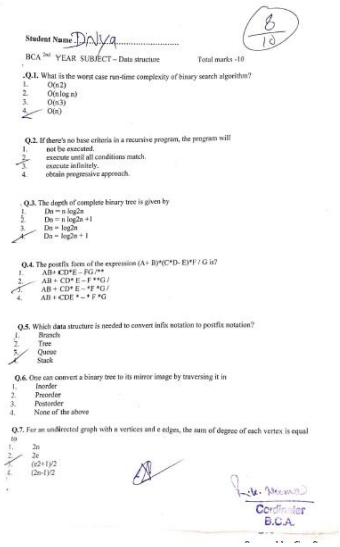

Student Name Divya

BCA 2nd YEAR SUBJECT – Data structure Total marks -10

Q.1. What is the worst case run-time complexity of binary search algorithm?
1. O(n2)
2. O(n log n)
3. O(n3)
4. O(n)

Q.2. If there's no base criteria in a recursive program, the program will
1. not be executed.
2. execute until all conditions match.
3. execute infinitely.
4. obtain progressive approach.

Q.3. The depth of complete binary tree is given by
1. Dn = n log2n
2. Dn = n log2n +1
3. Dn = log2n
4. Dn = log2n + 1

Q.4. The postfix form of the expression (A+ B)*(C*D- E)*F / G is?
1. AB+ CD*E – FG /**
2. AB + CD* E – F **G /
3. AB + CD* E – *F *G /
4. AB + CDE * – * F *G

Q.5. Which data structure is needed to convert infix notation to postfix notation?
1. Branch
2. Tree
3. Queue
4. Stack

Q.6. One can convert a binary tree to its mirror image by traversing it in
1. Inorder
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4. None of the above

Q.7. For an undirected graph with n vertices and e edges, the sum of degree of each vertex is equal to
1. 2n
2. 2e
3. (e2+1)/2
4. (2n-1)/2

Coordinator B.C.A.

Q.8. A data structure in which elements can be inserted or deleted at/from both the ends but not in the middle is?
1. Queue
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Q.9. What would be the asymptotic time complexity to add a node at the end of singly linked list, if the pointer is initially pointing to the head of the list?
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3. θ(n)
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Q.10. Consider the following definition in c programming language

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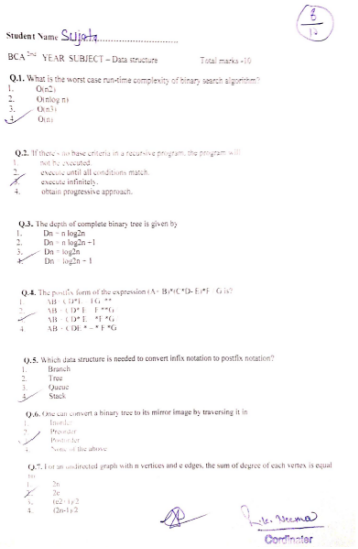

Student Name Sujata

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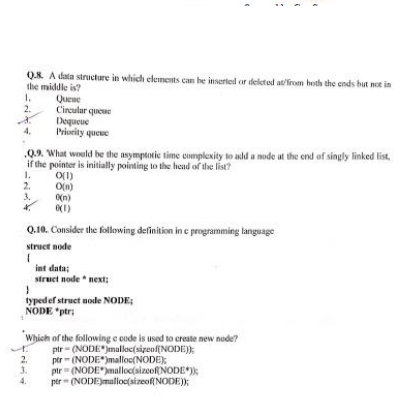

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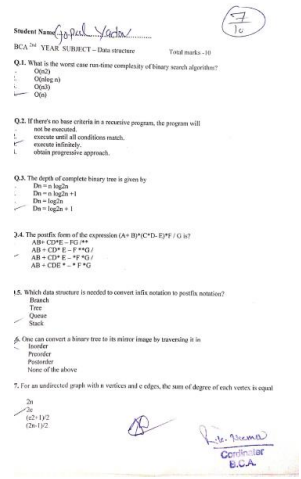

Student Name Gopal Yadav

BCA 2nd YEAR SUBJECT – Data structure Total marks -10

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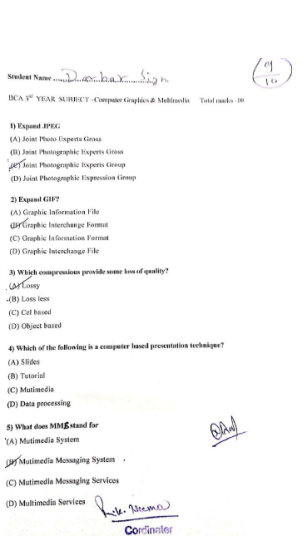
BCA III YEAR.

Mode: MCQ

Session: 2019-20



Student Name ..... BCA 3rd YEAR SUBJECT –Computer Graphics & Multimedia Total marks -10

1) Expand JPEG
(A) Joint Photo Experts Gross
(B) Joint Photographic Experts Gross
(C) Joint Photographic Experts Group
(D) Joint Photographic Expression Group

2) Expand GIF?
(A) Graphic Information File
(B) Graphic Interchange Format
(C) Graphic Information Format
(D) Graphic Interchange File

3) Which compressions provide some loss of quality?
(A) Lossy
(B) Loss less
(C) Cel based
(D) Object based

4) Which of the following is a computer based presentation technique?
(A) Slides
(B) Tutorial
(C) Mutimedia
(D) Data processing

5) What does MMF stand for
(A) Mutimedia System
(B) Mutimedia Messaging System
(C) Mutimedia Messaging Services
(D) Multimedia Services

Coordinator

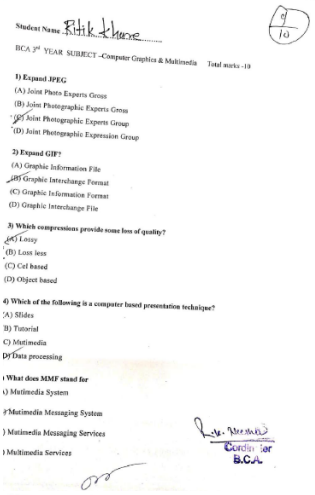
6) How many types of video compressions?
(A) 2
(B) 3
(C) 4
(D) 5

7) Which image files are a lossy format?
(A) GIF
(B) MPEG
(C) JPEG
(D) PNG

8) How many step process for creating a 3D animation?
(A) 1
(B) 2
(C) 3
(D) 4

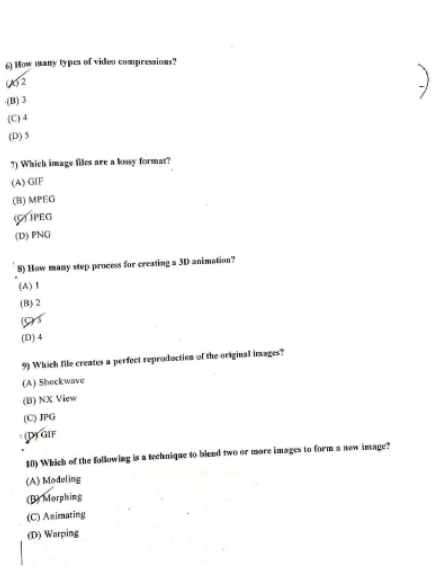
9) Which file creates a perfect reproduction of the original images?
(A) Shockwave
(B) NX View
(C) JPG
(D) GIF

10) Which of the following is a technique to blend two or more images to form a new image?
(A) Modeling
(B) Morphing
(C) Animating
(D) Warping



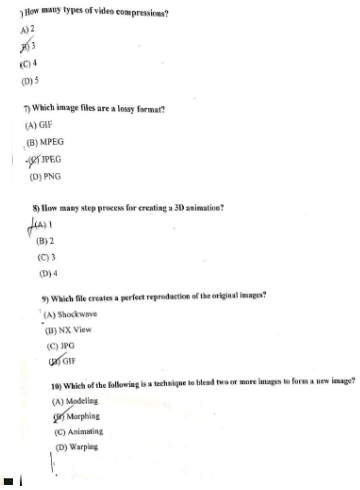
Student Name Ritik Khare
BCA 3rd YEAR SUBJECT –Computer Graphics & Multimedia Total marks -10

Coordinator B.C.A



Student Name Pooja Pal
BCA 3rd YEAR SUBJECT –Computer Graphics & Multimedia Total marks -10

Coordinator B.C.A



CCE

Bioinformatics

S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Sem	2015-16	Bioinformatics	Multiple Choice Question, learner Centric
2.	B.Sc. 2nd Sem	2015-16	Bioinformatics	Multiple Choice Question, learner Centric
3.	B.Sc. 3rd Sem	2015-16	Bioinformatics	Multiple Choice Question, learner Centric
4.	B.Sc. 4rt Sem	2015-16	Bioinformatics	Multiple Choice Question, learner Centric
5.	B.Sc. 5th Sem	2015-16	Bioinformatics	Multiple Choice Question, learner Centric
6.	B.Sc. 6th Sem	2015-16	Bioinformatics	Multiple Choice Question, learner Centric

S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Sem	2016-17	Bioinformatics	Multiple Choice Question, learner Centric
2.	B.Sc. 2nd Sem	2016-17	Bioinformatics	Multiple Choice Question, learner Centric
3.	B.Sc. 3rd Sem	2016-17	Bioinformatics	Multiple Choice Question, learner Centric
4.	B.Sc. 4rt Sem	2016-17	Bioinformatics	Multiple Choice Question, learner Centric
5.	B.Sc. 5th Sem	2016-17	Bioinformatics	Multiple Choice Question, learner Centric
6.	B.Sc. 6th Sem	2016-17	Bioinformatics	Poster

S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Year	2017-18	Bioinformatics	Multiple Choice Question, learner Centric
2.	B.Sc. 3rd Sem	2017-18	Bioinformatics	Multiple Choice Question, learner Centric
3.	B.Sc. 4rt Sem	2017-18	Bioinformatics	Multiple Choice Question, learner Centric
4.	B.Sc. 5th Sem	2017-18	Bioinformatics	Multiple Choice Question, learner Centric
5.	B.Sc. 6th Sem	2017-18	Bioinformatics	Multiple Choice Question, learner Centric

S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Year	2018-19	Bioinformatics	Assignment submission, learner Centric Written exam, learner Centric
2.	B.Sc. 2nd Year	2018-19	Bioinformatics	Written Teat, learner Centric
3.	B.Sc. 5th Sem	2018-19	Bioinformatics	Written test, learner Centric
4.	B.Sc. 6th Sem	2018-19	Bioinformatics	Written test, learner Centric

S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Year	2019-20	Bioinformatics	Written Teat, learner Centric
2.	B.Sc. 2nd Year	2019-20	Bioinformatics	Written Teat, learner Centric
3.	B.Sc. 3rd Year	2019-20	Bioinformatics	Assignment submission, learner Centric

2015-16

1st Sem

BIOINFORMATICS DEPARTMENT GOVT. MADHAV SCIENCE COLLEGE

SESSION: 2015-16

CLASS: BSC. I ST SEM.

PAPER: BASICS OF BIOINFORMATICS

MAX. MARKS: 15

INSTRUCTOR NAME: MR. RAVIKANT YADAV

CCE mode: Multiple Choice Question, learner Centric

Difficulty Level: Moderate

Topic covered: Applications of Bioinformatics, SCOPE Of bioinformatics in India, Genes, Genomes DNA ,RNA,Chromosomes, Protein.

CCE EXAMINATION 2015-2016
Subject- Bioinformatics
Semester- I

Name.....Akshay.....Sample.....

1. Margaret Day hoff ने first protein sequence database developed किया जिसे कहते है.....
a) SWISSPROT b) PDB
c) PIR d) UNIPROT Ans.....a.

2. डेटाबेस के प्रतेक record को कहते है
a) Entry b) File
c) Record d) Ticket Ans.....b..

3. Literature databases सम्मिलित है
a) MEDLINE and PubMED b) MEDLINE and PDB
c) PubMED and PDB d) MEDLINE and PDS Ans.....a.....

4. Protein sequence database है
a) DDBJ b) EMBL
c) GenBank d) PIR Ans.....d.....

5. GenBnak, nucleic acid sequence database को maintained करता है
a) Brookhaven laboratory b) DNA database of Japan (DDBJ)
c) European Molecular Biology laboratory d) National Centre for Biotechnology Information Ans....

6. Sequences Submission के लिए GenBanK use करता है
a) BankIt and Sequin b) BankIt and BankIn
c) Sequin and BankIn d) Entrez Ans.....a.....

7. Human genetics Diseases और molecular biology के अध्यन के लिये किस' डेटाबेस का उपयोग क्या जाता है
a) PDB b) STAG
c) OMIM d) PSD Ans.....c.

8) Biological database मिलकर बना होता है
a) DNA b) Protein
c) Structure d) All of the above Ans.....d

9. NCBI GenBank information retrieval के लिये कौन सा tool उपयोग करता है
a) Entrez b) STAG
c) SeqIn d) text search Ans.....a.

10) दिया गया कौन सा sequence सही है:
a) DNA, RNA, Protein b) DNA, Protein, RNA
c) RNA, DNA, Protein b) Protein, DNA, RNA Ans.....a.

4/12/15

14/15

CCE EXAMINATION 2015-2016
Subject- Bioinformatics
Semester- I

Name.....Nitesh.....

1. Margaret Day hoff ने first protein sequence database developed किया जिसे कहते है.....
a) SWISSPROT b) PDB
c) PIR d) UNIPROT Ans.....

2. डेटाबेस के प्रतेक record को कहते है
a) Entry b) File
c) Record d) Ticket Ans.....

3. Literature databases सम्मिलित है
a) MEDLINE and PubMED b) MEDLINE and PDB
c) PubMED and PDB d) MEDLINE and PDS Ans.....

4. Protein sequence database है
a) DDBJ b) EMBL
c) GenBank d) PIR Ans.....

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a) BankIt and Sequin b) BankIt and BankIn
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a) PDB b) STAG
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8) Biological database मिलकर बना होता है
a) DNA b) Protein
c) Structure d) All of the above Ans.....

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a) Entrez b) STAG
c) SeqIn d) text search Ans.....

10) दिया गया कौन सा sequence सही है:
a) DNA, RNA, Protein b) DNA, Protein, RNA
c) RNA, DNA, Protein b) Protein, DNA, RNA Ans.....

4/12/15

9/15

2nd Sem

CCE EXAMINATION 2015-2016
Subject- Bioinformatics
Semester- II

Name....... Bal Karan ....

1. PAM stands for... Point Accepted Matrix
2. HTML stands for-... Hyper Text Markup language
3. Perl Stand for.... Practical Extraction Reporting Language
4. SQL stand for......
5. Shebang line of Perl.... /user/bin/perl

6. Page Designed in HTML is called is -: Ans..........
   A) Web page B) yellow page C) front page D) server page
7. Which is not programming language: - Ans ....
   A) Perl B) Python C) C++ D) Basic
8. Which of the following is an Interpreted programming? Ans ....
   A) Perl B) C C) C++ D) Pascal
9. Perl is available for: - Ans..............
   A) Window B) Linux C) Macintosh D) All of the above
10. Which of the Following variable is not used in Perl? Ans..............
   A) Scalar B) Hashes C) Array D) Character
11. The matrix used for the best local alignment of protein sequences is Ans..............
   A) BLOSUM62 B) IUB C) BLOSUM80 D) PAM20
12. What is hyper link tag.
   /h/user/

6/15 — 16/3/16

CCE EXAMINATION 2015-2016
Subject- Bioinformatics
Semester- II

Name.... [illegible]

1. PAM stands for.... Point Accepted mutation
2. HTML stands for-.... hypertex Markup language
3. Perl Stand for.... practical extraction report language
4. SQL stand for.... Structure Query language
5. Shebang line of Perl.... \user\bin\perl

6. Page Designed in HTML is called is -: Ans... webpage
   A) Web page B) yellow page C) front page D) server page
7. Which is not programming language: - Ans .... Basic
   A) Perl B) Python C) C++ D) Basic
8. Which of the following is an Interpreted programming? Ans .... Pascal
   A) Perl B) C C) C++ D) Pascal
9. Perl is available for: - Ans... All of the Above
   A) Window B) Linux C) Macintosh D) All of the above
10. Which of the Following variable is not used in Perl? Ans... Character
   A) Scalar B) Hashes C) Array D) Character
11. The matrix used for the best local alignment of protein sequences is Ans... Blosum 62
   A) BLOSUM62 B) IUB C) BLOSUM80 D) PAM20
12. What is hyper link tag.
    link text

6/15 — 16/3/16

CCE EXAMINATION 2015-2016
Subject- Bioinformatics
Semester- II

Name... Lavendra Singh

1. PAM stands for... Point accepted mutation
2. HTML stands for-... Hypertext markup language
3. Perl Stand for... practical extraction report language
4. SQL stand for... Structured extraction and query language
5. Shebang line of Perl... /user/

6. Page Designed in HTML is called is -: Ans... webpage
   A) Web page B) yellow page C) front page D) server page
7. Which is not programming language: - Ans ... Basic
   A) Perl B) Python C) C++ D) Basic
8. Which of the following is an Interpreted programming? Ans ... pascal
   A) Perl B) C C) C++ D) Pascal
9. Perl is available for: - Ans. All of above
   A) Window B) Linux C) Macintosh D) All of the above
10. Which of the Following variable is not used in Perl? Ans. character
   A) Scalar B) Hashes C) Array D) Character
11. The matrix used for the best local alignment of protein sequences is Ans. IUB
   A) BLOSUM62 B) IUB C) BLOSUM80 D) PAM20
12. What is hyper link tag.

5/15 — 16/3/16

CCE EXAMINATION 2015-2016
Subject- Bioinformatics
Semester- II

Name....... [illegible]

1. PAM stands for.... Point accepted mutation
2. HTML stands for-.... Hypertext markup language
3. Perl Stand for.... practical extraction and report language.
4. SQL stand for.... Structured Query Language
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10. Which of the Following variable is not used in Perl? Ans... character.
   A) Scalar B) Hashes C) Array D) Character
11. The matrix used for the best local alignment of protein sequences is Ans... IUB
   A) BLOSUM62 B) IUB C) BLOSUM80 D) PAM20
12. What is hyper link tag.
   The <a> tag defines a hyperlink, which is used to link from one page to another.

8/15 — 16/3/16

3rd Sem

Name – Rajpaal Shing

BIOINFORMATICS DEPARTMENT GOVT. MADHAV SCIENCE COLLEGE

SESSION: 2015-16

CLASS: BSC.III SEM.

PAPER : BIOSTATISTICS AND BIOINFORMATICS TECHNIQUES

MAX. MARKS : 15

INSTRUCTOR NAME: MR. RAVIKANT YADAV

CCE mode: Multiple Choice Question, learner Centric

Difficulty Level: Moderate

Topic covered:. Gel Electrophoresis: PAGE and SDS PAGE, Chromatography and its types, Introduction to plasmid and vectors, Gene cloning and its Application

Anjli Silawat

CCE EXAMINATION 2015-2016
Subject- Bioinformatics
Semester- III

1) The color of phosphorus atom in Rasmol is.....

A. White
B. Yellow
C. Red
D. Orange

2) Which of the following is not a measure of central location?

a. mean
b. median
c. variance
d. mode

3) Exhibit 1
A researcher has collected the following sample data.

X=0 1 2 3 4 5 6
f= 7 7 10 5 3 2 1

Refer to Exhibit 1. The mean is

a. 5
b. 2
c. 3
d. 8
e. None of the above answers is correct.

4) 39. The descriptive measure of dispersion that is based on the concept of a deviation about the mean is

a. the range
b. the interquartile range
c. both a and b
d. the standard deviation
e. None of the above answers is correct.

5). The measure of dispersion that is influenced most by extreme values is

a. the variance
b. the standard deviation
c. the range
d. the interquartile range
e. None of the above answers is correct.

6) Exhibit-2 SpeedMiles per Hour Frequency
x f

Ekyadav 21/11/15 7/15

CCE EXAMINATION 2015-2016
Subject- Bioinformatics
Semester- III

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6) Exhibit-2 SpeedMiles per Hour Frequency
x f

Ekyadav 21/11/15 7/15

नाम - दिव्या पुजारी

CCE EXAMINATION 2015-2016
Subject- Bioinformatics
Semester- III

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6) Exhibit-2 SpeedMiles per Hour Frequency
x f

Ek 21/11/15 8/15

4th Sem

BIOINFORMATICS DEPARTMENT GOVT. MADHAV SCIENCE COLLEGE

SESSION: 2015-16

CLASS: BSC. IV SEM.

PAPER: GENOMICS AND PROTIOMICS

MAX. MARKS: 15

INSTRUCTOR NAME: MR. RAVIKANT YADAV

CCE mode: Multiple Choice Question, learner Centric

Difficulty Level: Moderate

Topic covered: Introduction of Genomics. Functional Genomics, Tools and techniques in proteomics, Protein- Protein interactions

नाम – हैरी सिंह दागी

CCE EXAMINATION 2015-2016
Subject- Bioinformatics
Semester- IV

1. The complete set of mRNA in an organism is called as.....जीनोमिक्स.....
2. The most popular plot, Phi-Psi plot for protein conformation is known as.रामाचन्द्रन प्लॉट
3. 3D Structure Validation Proteomics tools is.........
4. Give the 2 Name of PPI Databases.........
5. Give the Name of Hydroxy Amino Acid.........

6. PDB identifier is assigned by Ans...A......
   A) 4 character B) 3 character
   C) 5 character D) 7 characters

7. Which among the following is not functional genomics Ans.........d......
   A) Transcriptomics B) Proteomics
   C) Genome sequencesing D) Metabonomics

8. Which type of genomics studies the physical nature of genomes? Ans..........b
   A) Comparative genomics B) Structural genomics
   C) Functional genomics D) All of these

9. Proteomics is Ans....C......
   A) Branch of quantum physics
   B) The study of algal genomes
   C) The study of the entire collection of proteins expressed by an organism
   D) All of these

10. Which is Not Proteomics Techniques? Ans...............
    A) Yeast Two Hybrid
    B) Mass spectrometry
    C) Protein Microarray
    D) None of these

10/3/16 — 6/15

नाम – आरती मकवाना

CCE EXAMINATION 2015-2016
Subject- Bioinformatics
Semester- IV

1. The complete set of mRNA in an organism is called as..........जीनोमिक्स..........
2. The most popular plot, Phi-Psi plot for protein conformation is known as......रामचन्द्रन प्लाट
3. 3D Structure Validation Proteomics tools is.........
4. Give the 2 Name of PPI Databases.........
5. Give the Name of Hydroxy Amino Acid.........

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ज्ञानेश कुमार

CCE EXAMINATION 2015-2016
Subject- Bioinformatics
Semester- IV

1. The complete set of mRNA in an organism is called as..जीनोमिक्स.........
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    A) Yeast Two Hybrid
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    C) Protein Microarray
    D) None of these

10/3/16 — 6/15

BIOINFORMATICS DEPARTMENT GOVT. MADHAV SCIENCE COLLEGE

SESSION: 2015-16

CLASS: BSC.V SEM.

PAPER : COMPUTATIONAL AND STRUCTURE BIOINFORMATICS

MAX. MARKS : 15

INSTRUCTOR NAME: MR. RAVIKANT YADAV

CCE mode: Multiple Choice Question, learner Centric

Difficulty Level: Moderate

Topic covered: Introduction and working of microarray, Microarray: technique, Design, Analysis, Introduction to Human Genome Project, Introduction to HGO Ethical issues related to HGP

जागदीपसिंह यादव

CCE EXAMINATION 2015-2016
Subject- Bioinformatics
Semester- v

1) The two main features of any phylogenetic tree are the

A. edges and the nodes
B. topology and the branch lengths
C. edges and the root
D. alignment and the bootstrap

2) The number of edges that meet at every branch node of the phylogenetic tree is……..

a. 2
b. 3
c. 4
d. All of these

3) Which of the following sequence is correct:
a. DNA, RNA, Protein
b. DNA, Protein, RNA
c. RNA, DNA, Protein
d. Protein, DNA, RNA

36) Which are the repositories for raw sequence data
e. A) Gen Bank
f. B) EMBL
g. C) DDBJ
h. D) GGPP

4) human genome contains about

A. 2 billion base pair
B. 3 billion base pair
C. 4 billion base pair
D. 3.5 billion base pair

5) Deposition of c DNA into inert structure is

A. DNA fingerprinting
B. DNA polymerase
C. DNA probes
D. DNA microarrays

6) The identification of drug through genomic study

A. Genomics
B. Cheminformatics
C. Pharmagenomics
D. Phrmacogenetics

10/12/15 13/15

ईश्वर सिंह यादव

CCE EXAMINATION 2015-2016
Subject- Bioinformatics
Semester- v

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6) The identification of drug through genomic study

A. Genomics
B. Cheminformatics
C. Pharmagenomics
D. Phrmacogenetics

10/12/15 14/15

गुरा चौहान

CCE EXAMINATION 2015-2016
Subject- Bioinformatics
Semester- v

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C. edges and the root
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6) The identification of drug through genomic study

A. Genomics
B. Cheminformatics
C. Pharmagenomics
D. Phrmacogenetics

10/12/15 12/15

6th Sem

BIOINFORMATICS DEPARTMENT GOVT. MADHAV SCEINCE COLLAGE

SESSION: 2015-16

CLASS: BSC.VI SEM.

PAPER : MOLECULAR MODELING AND DRUG DESIGN

MAX. MARKS : 15

INSTRUCTOR NAME: MR. RAVIKANT YADAV

CCE mode: Multiple Choice Question, learner Centric

Difficulty Level: Moderate

Topic covered: Introduction to Molecular Modeling, Methods of Molecular modelling, Introduction & Technique of Molecular Dynamics &Monti Carlo.

CCE EXAMINATION 2015-2016
Subject- Bioinformatics
Semester- VI

Name..शुनील अहिर........................

1. Swiss model is.......................Homology modeling software
2. Evaluation of homology model is done by..............Errd plot..........
3. Threading is a method of...
4. The percentage of safe zone in Homology modeling is..............................
5. The most popular plot, Phi-Psi plot for protein conformation is known as..रामा चन्द्र प्लोट

6. Verify 3D is used for Ans.....C......
   A. Model optimization B. loop Modeling
   C. Evalution of model D. side chain Modeling

7. PDB identifier is assigned by Ans.....a.......
   A) 4 character B) 3 character
   C) 5 character D) 7 characters

8. We can build 3D model of Ans.......C.......
   A) Template B) Trsion
   C) Target D) Tarns of a protein

9. Which is not Homology Modeling server? Ans..................
   A) Phyre B) CPHModel
   C) SAVES D) Swiss Model

10. The drug discrimination process can be used to study. Ans..................
   A) Structure-activity Relationship
   B) Stereo selectivity
   C) Mechanism of action
   D) All of the above

16/7/16 9/15

CCE EXAMINATION 2015-2016
Subject- Bioinformatics
Semester- VI

Name..आशीष सिसोदिया

1. Swiss model is......Protin Modling software
2. Evaluation of homology model is done by........Errater part
3. Threading is a method of........3D structure of protin
4. The percentage of safe zone in Homology modeling is........great than
5. The most popular plot, Phi-Psi plot for protein conformation is known as..रामाचन्द्रन

6. Verify 3D is used for Ans...C.........
   A. Model optimization B. loop Modeling
   C. Evalution of model D. side chain Modeling

7. PDB identifier is assigned by Ans.............d.....
   A) 4 character B) 3 character
   C) 5 character D) 7 characters

8. We can build 3D model of Ans...C.............
   A) Template B) Trsion
   C) Target D) Tarns of a protein

9. Which is not Homology Modeling server? Ans...C................
   A) Phyre B) CPHModel
   C) SAVES D) Swiss Model

10. The drug discrimination process can be used to study. Ans.......D.........
   A) Structure-activity Relationship
   B) Stereo selectivity
   C) Mechanism of action
   D) All of the above

16/7/16 13/15

CCE EXAMINATION 2015-2016
Subject- Bioinformatics
Semester- VI

Name....निलेश..............

1. Swiss model is..............Protein modeling software
2. Evaluation of homology model is done by..............Essat Plot
3. Threading is a method of..................3D Structure
4. The percentage of safe zone in Homology modeling is..............
5. The most popular plot, Phi-Psi plot for protein conformation is known as.....Ramachandran plot

6. Verify 3D is used for Ans.........A....
   A. Model optimization B. loop Modeling
   C. Evalution of model D. side chain Modeling

7. PDB identifier is assigned by Ans........A.....
   A) 4 character B) 3 character
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   A) Phyre B) CPHModel
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10. The drug discrimination process can be used to study. Ans...............A...
   A) Structure-activity Relationship
   B) Stereo selectivity
   C) Mechanism of action
   D) All of the above

16/7/16 10/15

2016-17

1st Sem

BIOINFORMATICS DEPARTMENT GOVT. MADHAV SCIENCE COLLEGE

SESSION: 2016-17

CLASS: BSC.I[ST] SEM.

PAPER : BASICS OF BIOINFORMATICS

MAX. MARKS : 15

INSTRUCTOR NAME: MR. RAVIKANT YADAV

CCE mode: Multiple Choice Question, learner Centric

Difficulty Level: Moderate

Topic covered: Applications of Bioinformatics, SCOPE Of bioinformatics in India, Genes, Genomes DNA ,RNA,Chromosomes, Protein.

CCE EXAMINATION 2016-2017
Subject- Bioinformatics
Semester- 1

Name.....

1) Name the database that deals with structure classification.
a) SCOP b) CATH
c) VEST d) All of these Ans..D...

2) Cn3D is a .....
a) Molecular file format. b) Molecular viewer
c) Molecular file format conversion tool d) All of these Ans..B.....

3) Motif is a .....
a) Secondary structure b) Super secondary structure
c) Tertiary structure d) Quaternary structure Ans...B.....

4) PIR was established in.....
a) 1980 b) 1964
c) 1984 d) 2000 Ans.C....

5) Swiss Prot was Established in .....
a) 1985 b) 1986
c) 1987 d) 1988 Ans.....

6) What does the term LOCUS explain in genbank flat file?
a) Accession number b) Length of molecule
c) Type of molecule d) All of these Ans.A.....

7) The full form of RCSB is .....
a) Research Center for Structure Biology. b) Research collaborator for structure Bioinformatics
c) Research center for Structure Bioinformatics d) None of these Ans..B.....

8) The software that takes input in MMDb format is.....
a) Cn3D b) Rasmol
c) PyMol d) SPDV Ans..A.....

9) Which of the following sequence is correct?
a) DNA, RNA, Protein b) DNA, Protein, RNA
c) RNA, DNA, Protein d) Protein, DNA, RNA Ans...A.....

10) Which of the following is a pathway database?
a) DDBJ b) EMBL
c) KEGG d) PIR Ans...C.....

15/11/16 9/15

CCE EXAMINATION 2016-2017
Subject- Bioinformatics
Semester- 1

Name.....

1) Name the database that deals with structure classification.
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c) VEST d) All of these Ans..d...

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c) PyMol d) SPDV Ans.....

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15/11/16 9/15

CCE EXAMINATION 2016-2017
Subject- Bioinformatics
Semester- 1

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c) VEST d) All of these Ans..D...

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10) Which of the following is a pathway database?
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c) KEGG d) PIR Ans...C.....

15/11/16 10/15

2nd Sem

CCE EXAMINATION 2016-2017
Subject- Bioinformatics
Semester- II

Name..कविता राठौर...............

1. PAM stands for........प्वॉ Paint Mutcion Accpted Mulcon......
2. HTML stands for-...Hyper test magier lunguag....................
3. Perl Stand for....प्रेक्टिकल एक्स्ट्रेक्शन एण्ड रिपोर्ट लेंग्वेज...............
4. SQL stand for......स्ट्रेक्चर क्वेरी लेंग्वेज.....................................
5. Shebang line of Perl..
6. Page Designed in HTML is called is -: Ans..A....
   A) Web page B) yellow page C) front page D) server page
7. Which is not programming language: - Ans ..D.........
   A) Perl B) Python C) C++ D)Basic
8. Which of the following is an Interpreted programming? Ans ....
   A) Perl B) C C) C++ D) Pascal
9. Perl is available for: - Ans...D..........
   A) Window B) Linux C) Macintosh D) All of the above
10. Which of the Following variable is not used in Perl? Ans....B.......
   A) Scalar B)Hashes C) Array D) Character
11. The matrix used for the best local alignment of protein sequences is Ans....A........
   A) BLOSUM62 B) IUB C) BLOSUM80 D) PAM20
12. What is hyper link tag.
....

25/3/17 13/15

CCE EXAMINATION 2016-2017
Subject- Bioinformatics
Semester- II

Name.....आशिष चौधरी........

1. PAM stands for.........प्वॉ.....Paint.....Mution (Accept)...........................
2. HTML stands for-.........हायपर टेक्स्ट मार्कअप लेंग्वेज..........
3. Perl Stand for.....प्रेक्टिकल एक्स्ट्रेक्शन एण्ड रिपोर्ट लेंग्वेज
4. SQL stand for.........स्ट्रक्चर क्वेरी लेंग्वेज..........
5. Shebang line of Perl..
6. Page Designed in HTML is called is -: Ans...C....
   A) Web page B) yellow page C) front page D) server page
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12. What is hyper link tag.
....

25/3/17 9/15

CCE EXAMINATION 2016-2017
Subject- Bioinformatics
Semester- II

Name...Jayesh Solanki.........

1. PAM stands for...Point expectation mutaion..........................
2. HTML stands for-.hyper text markup language.........
3. Perl Stand for.Practical extraction and report language
4. SQL stand for...Structure query language..........................
5. Shebang line of Perl..tell unix shell which interpreter on unix
6. Page Designed in HTML is called is -: Ans.........
   A) Web page B) yellow page C) front page D) server page
7. Which is not programming language: - Ans ....
   A) Perl B) Python C) C++ ✓D)Basic
8. Which of the following is an Interpreted programming? Ans ....
   A) Perl B) C C) C++ D) Pascal
9. Perl is available for: - Ans................
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12. What is hyper link tag.
....

25/3/17 11/15

CCE EXAMINATION 2016-2017
Subject- Bioinformatics
Semester- II

Name....Manish kumar..............

1. PAM stands for..........protential acidity meter...............
2. HTML stands for-...hyper text markup language -...........
3. Perl Stand for.....practical extraction and report language.
4. SQL stand for........Structure query language..............
5. Shebang line of Perl.......tells a unix shell interpreter to pass the script . give shell option .
6. Page Designed in HTML is called is -: Ans.........
   A) Web page ✓B) yellow page C) front page D) server page
7. Which is not programming language: - Ans ....
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25/3/17 11/15

3rd Sem

BIOINFORMATICS DEPARTMENT GOVT. MADHAV SCIENCE COLLEGE

SESSION: 2016-17

CLASS: BSC.III SEM.

PAPER : BIOSTATISTICS AND BIOINFORMATICS TECHNIQUES

MAX. MARKS : 15

INSTRUCTOR NAME: MR. RAVIKANT YADAV

CCE mode: Multiple Choice Question, learner Centric

Difficulty Level: Moderate

Topic covered:. Gel Electrophoresis: PAGE and SDS PAGE, Chromatography and its types, Introduction to plasmid and vectors, Gene cloning and its Application

Akshay Saxena.

CCE EXAMINATION 2016-2017
Subject- Bioinformatics
Semester- III

1) The color of phosphorus atom in Rasmol is.....

A. White
B. Yellow
C. Red
D. Orange

2) Which of the following is not a measure of central location?

a. mean
b. median
c. variance
d. mode

3) Exhibit 1
A researcher has collected the following sample data.

X=0 1 2 3 4 5 6
f= 7 7 10 53 2 1

Refer to Exhibit 1. The mean is

a. 5
b. 2
c. 3
d. 8
e. None of the above answers is correct.

4) 39. The descriptive measure of dispersion that is based on the concept of a deviation about the mean is

a. the range
b. the interquartile range
c. both a and b
d. the standard deviation
e. None of the above answers is correct.

5). The measure of dispersion that is influenced most by extreme values is

a. the variance
b. the standard deviation
c. the range
d. the interquartile range
e. None of the above answers is correct.

6) Exhibit-2 SpeedMiles per Hour Frequency
x f

Ekta 23/11/16 14/15

CCE EXAMINATION 2016-2017
Subject- Bioinformatics
Semester- III

1) The color of phosphorus atom in Rasmol is.....

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C. Red
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b. the standard deviation
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d. the interquartile range
e. None of the above answers is correct.

6) Exhibit-2 SpeedMiles per Hour Frequency
x f

23/11/16 8/15

Name- Lakhan

CCE EXAMINATION 2016-2017
Subject- Bioinformatics
Semester- III

1) The color of phosphorus atom in Rasmol is.....

A. White
B. Yellow
C. Red
D. Orange

2) Which of the following is not a measure of central location?

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a. the variance
b. the standard deviation
c. the range
d. the interquartile range
e. None of the above answers is correct.

6) Exhibit-2 SpeedMiles per Hour Frequency
x f

23/11/16 6/15

4th Sem

BIOINFORMATICS DEPARTMENT GOVT. MADHAV SCIENCE COLLEGE

SESSION: 2016-17

CLASS: BSC. IV SEM.

PAPER : GENOMICS AND PROTIOMICS

MAX. MARKS : 15

INSTRUCTOR NAME: MR. RAVIKANT YADAV

CCE mode: Multiple Choice Question, learner Centric

Difficulty Level: Moderate

Topic covered: Introduction of Genomics. Functional Genomics, Tools and techniques in proteomics, Protein- Protein interactions

CCE EXAMINATION 2016-2017
Subject- Bioinformatics
Semester- IV

Name..Satyanarayan.............

Short Note

1. EXON
Exon are coding sections of an RNA transcipt or the DNA encoding it that are translated into protein.
2. 5'UTR
unique taxpayer reference no: are 10 digit codes that uniquely protien you are your Issuers, they are used by HMRC.
3. Transcriptome
Achieve Rapid isolation and purification of genomic and plasmid DNA. By Now/ extract high quality RNA/.
4. Watson-crick Base pairing
watson - crick structure of DNA. Dexoyribo-nucleic Acid (DNA) is a double-standeard helical molicule.
5. Structure Proteomics
in order to organize the large amont of DNA within the nucleus. These proction chromosome complexe are called chromatin.
6. The complete set of mRNA in an organism is called as...................
7. The most popular plot, Phi-Psi plot for protein conformation is known as...................
8. 3D Structure Validation Proteomics tools is....Spining tools..................
9. Give the 2 Name of PPI Databases...................
10. Give the Name of Hydroxy Amino Acid...................

18/3/17 12/15

Sidd

CCE EXAMINATION 2016-2017
Subject- Bioinformatics
Semester- IV

Name..Siddhant...................

Short Note

1. EXON
Exon are coding sections of an RNA transcript or the DNA encoding it that are translated into protein.
2. 5'UTR
unique transcription taxpair reference no: are 10 digit codes that uniquely protein you are your Issuer.
3. Transcriptome
Achieve Rapid isolation Deoxy Ribonucleic acid is a double standed together by hydrogen.
4. Watson-crick Base pairing
Bonds b/w Pair of Nitrogenous Bases on the inside crick went to do fundamental work in Molecular Biology and neurobiology.
5. Structure Proteomics
In order to organise the large amount of DNA within the Nucleus, Proteins called histones are attached to chromosomes, the DNA is wrapped beads and strings.
6. The complete set of mRNA in an organism is called as...Eukaryotic cell.
7. The most popular plot, Phi-Psi plot for protein conformation is known as...chromosomes.
8. 3D Structure Validation Proteomics tools is......Spinning tools.........
9. Give the 2 Name of PPI Databases...................
10. Give the Name of Hydroxy Amino Acid...................

18/3/17 8/15

CCE EXAMINATION 2016-2017
Subject- Bioinformatics
Semester- IV

Name...शुभम कुरेल...................

Short Note

1. EXON
DNA में दो भाग होते है जिससे प्रोटीन बनता है उसको EXON कहते है और जिससे प्रोटिन नही बनता उसको INTRON कहते है।
2. 5'UTR
एन्ट्रांसलेटेड रिजन यह mRNA का वह भाग है जो प्रोटिन नही बनाता है पर mRNA के 5 प्राइम के end से बनने लगता है।
3. Transcriptome
किसी organism के अन्दर बनने वाले complet mRNA के सेट को Transcriptome कहते है।
4. Watson-crick Base pairing
यह बेस पेयर वाटसन क्रिक के द्वारा दिया गया है जिसमें एडिनि थायमिन के साथ हाइड्रोजन बंध बनाता है और ग्वानिन - साइटोसीन के साथ हाइड्रोजन बंध बनाता है।
5. Structure Proteomics
किसी organism के अन्दर पाये जाने वाले कम्पलीट Protien के सेट कि study को Proteomics कहते है।
6. The complete set of mRNA in an organism is called as...जीनोमिक्स...
7. The most popular plot, Phi-Psi plot for protein conformation is known as...रामचन्द्रन...
8. 3D Structure Validation Proteomics tools is....प्रोचेक...........
9. Give the 2 Name of PPI Databases...................
10. Give the Name of Hydroxy Amino Acid...................

18/3/17 14/15

Signature Not Verified
ARPAN BHARDWAJ
E=ARPANBHARDWAJ11@GMAIL.COM,

5th Sem

BIOINFORMATICS DEPARTMENT GOVT. MADHAV SCIENCE COLLEGE

SESSION: 2016-17

CLASS: BSC.V SEM.

PAPER : COMPUTATIONAL AND STRUCTURE BIOINFORMATICS

MAX. MARKS : 15

INSTRUCTOR NAME: MR. RAVIKANT YADAV

CCE mode: Multiple Choice Question, learner Centric

Difficulty Level: Moderate

Topic covered: Introduction and working of microarray, Microarray: technique, Design, Analysis, Introduction to Human Genome Project, Introduction to HGO Ethical issues related to HGP

Vinod Kumar

CCE EXAMINATION 2016-2017
Subject- Bioinformatics
Semester- v

1) The two main features of any phylogenetic tree are the

A. edges and the nodes
B. topology and the branch lengths
C. edges and the root
D. alignment and the bootstrap

2) The number of edges that meet at every branch node of the phylogenetic tree is……..

a. 2
b. 3
c. 4
d. All of these

3) Which of the following sequence is correct:
a. DNA, RNA, Protein
b. DNA, Protein, RNA
c. RNA, DNA, Protein
d. Protein, DNA, RNA

4) Which are the repositories for raw sequence data
e. A) Gen Bank
f. B) EMBL
g. C) DDBJ
h. D) GGPP

5) human genome contains about

A. 2 billion base pair
B. 3 billion base pair
C. 4 billion base pair
D. 3.5 billion base pair

6) Deposition of c DNA into inert structure is

A. DNA fingerprinting
B. DNA polymerase
C. DNA probes
D. DNA microarrays

7) The identification of drug through genomic study

A. Genomics
B. Cheminformatics
C. Pharmagenomics
D. Phrmacogenetics

Aarti Makwana

CCE EXAMINATION 2016-2017
Subject- Bioinformatics
Semester- v

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CCE EXAMINATION 2016-2017
Subject- Bioinformatics
Semester- v

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c. RNA, DNA, Protein
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C. DNA probes
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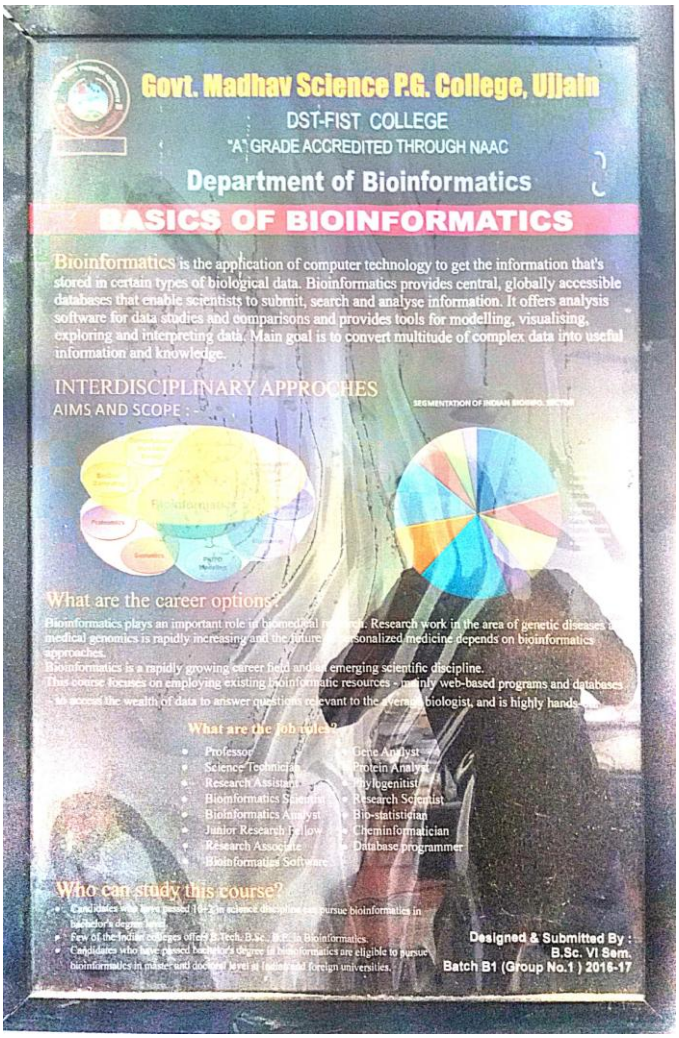
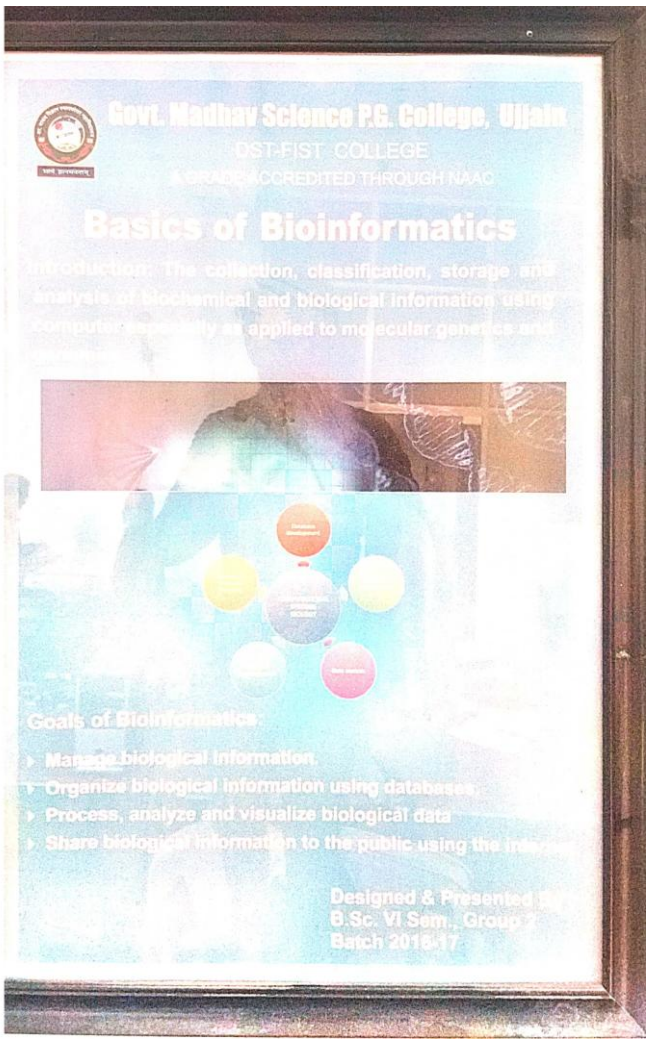
6) The identification of drug through genomic study

A. Genomics
B. Cheminformatics
C. Pharmagenomics
D. Phrmacogenetics

6th Sem





2017-18
1 Year

BIOINFORMATICS DEPARTMENT GOVT. MADHAV SCEINCE COLLAGE

SESSION: 2017-18

CLASS: BSC.IST YEAR

PAPER 101 : INTRODUCTION OF BIOINFORMATICS

MAX. MARKS : 10

INSTRUCTOR NAME: MR. RAVIKANT YADAV

CCE mode: Multiple Choice Question, learner Centric

Difficulty Level: Moderate

Topic covered: Bioinformatics introduction , Introduction of Biological databases.

Akshay Nayak

CCE EXAMINATION 2017-2018
Subject- Bioinformatics
Semester- I Year

1. Margaret Day hoff developed the first protein sequence database called……

A) SWISSPROT B) PDB
C) PIR D) UNIPROT

2. Each record in a database is called an
a) Entry b) File
c) Record d) Ticket

3. Literature databases include
a) MEDLINE and PubMED b) MEDLINE and PDB
c) PubMED and PDB d) MEDLINE and PDS

6. Which of the following is a protein sequence database?
a) DDBJ b) EMBL
c) GenBank d) PIR

7. GenBnak, the nucleic acid sequence database is maintained by
a) Brookhaven laboratory b) DNA database of Japan (DDBJ)
c) European Molecular Biology laboratory d) National Centre for Biotechnology Information

8. Submission to GenBanK are made using
a) BankIt and Sequin b) BankIt and BankIn
c) Sequin and BankIn d) Entrez

10. A comprehensive database for the study of human genetics Diseases and molecular biology is
a) PDB b) STAG
c) OMIM d)PSD

11. All the following are protein sequence databases except
a) PIR b) PSD
c) SWISS PROT d) EMBL

12. The information retrieval tool of NCBI GenBank is
a) Entrez b) STAG
c) SeqIn d) text search

14. Which of the following is a sequence alignment tool
a) BLAST b) PRINT
c) PROSITE d) PIR

15) Name the database that deals with structure classification.

a) SCOP b)CATH
b) VEST d)All of these

13/01/17

7/10

CCE EXAMINATION 2017-2018
Subject- Bioinformatics
Semester- I Year

1. Margaret Day hoff developed the first protein sequence database called……

A) SWISSPROT B) PDB
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a) BLAST b) PRINT
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15) Name the database that deals with structure classification.

a) SCOP b)CATH
b) VEST d)All of these

13/01/17

6/10

3rd Sem

BIOINFORMATICS DEPARTMENT GOVT. MADHAV SCIENCE COLLEGE

SESSION: 2017-18

CLASS: BSC.III SEM.

PAPER : BIOSTATISTICS AND BIOINFORMATICS TECHNIQUES

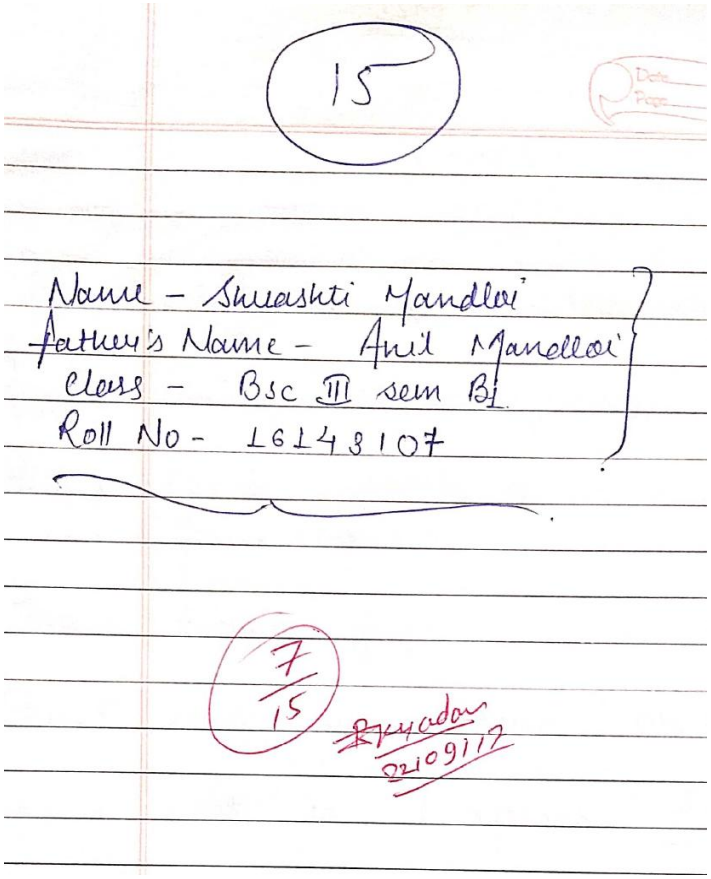
MAX. MARKS : 15

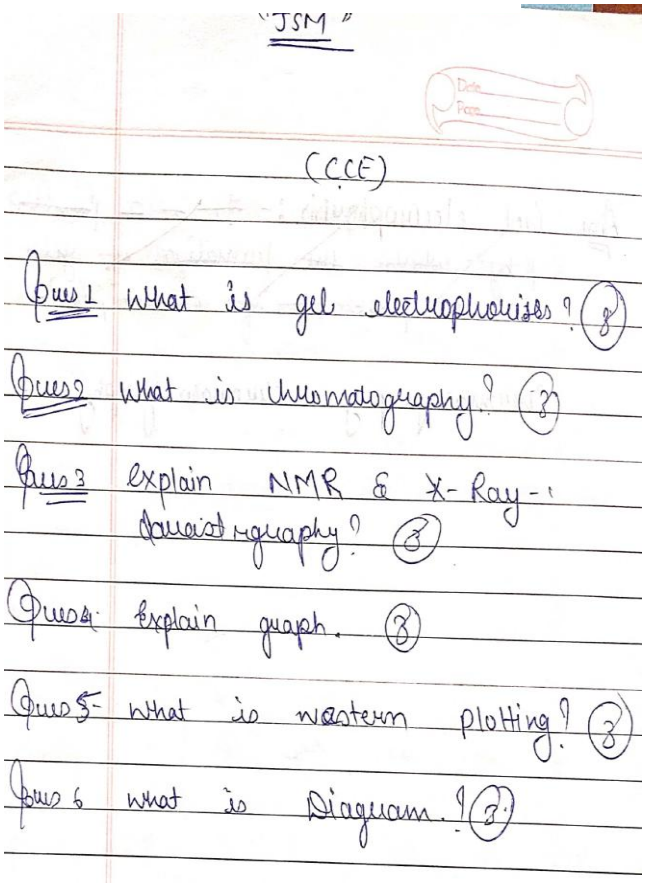
INSTRUCTOR NAME: MR. RAVIKANT YADAV

CCE mode: Multiple Choice Question, learner Centric

Difficulty Level: Moderate

Topic covered:. Gel Electrophoresis: PAGE and SDS PAGE, Chromatography and its types, Introduction to plasmid and vectors, Gene cloning and its Application





4th Sem

BIOINFORMATICS DEPARTMENT GOVT. MADHAV SCIENCE COLLEGE

SESSION: 2017-18

CLASS: BSC. IV SEM.

PAPER : GENOMICS AND PROTIOMICS

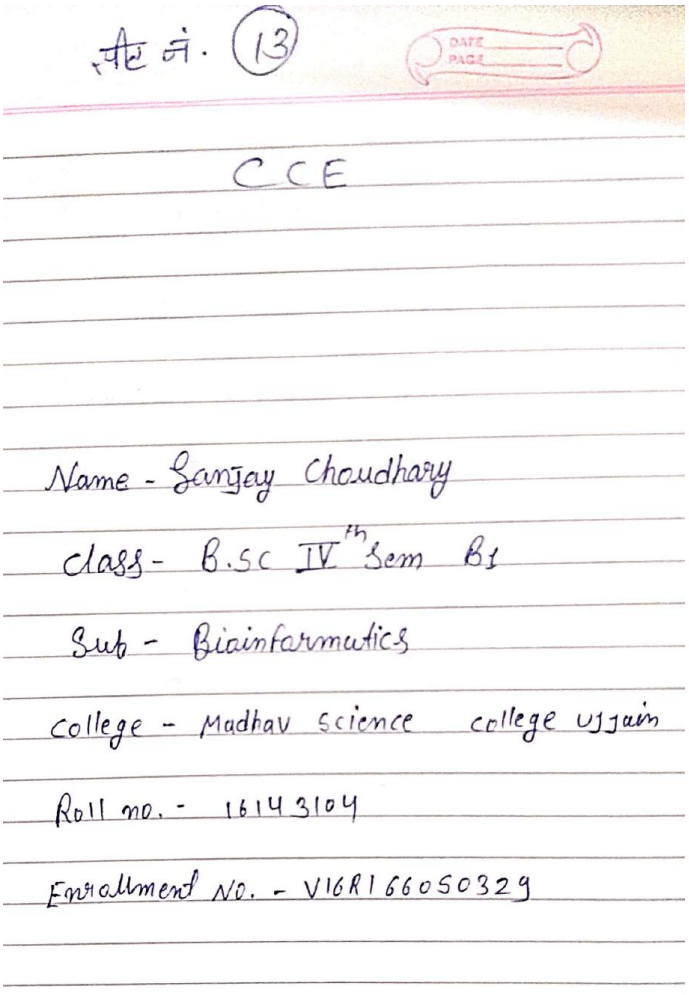
MAX. MARKS : 15

INSTRUCTOR NAME: MR. RAVIKANT YADAV

CCE mode: Multiple Choice Question, learner Centric

Difficulty Level: Moderate

Topic covered: Introduction of Genomics. Functional Genomics, Tools and techniques in proteomics, Protein- Protein interactions


पेज नं. (13)

CCE

Name - Sanjay Choudhary

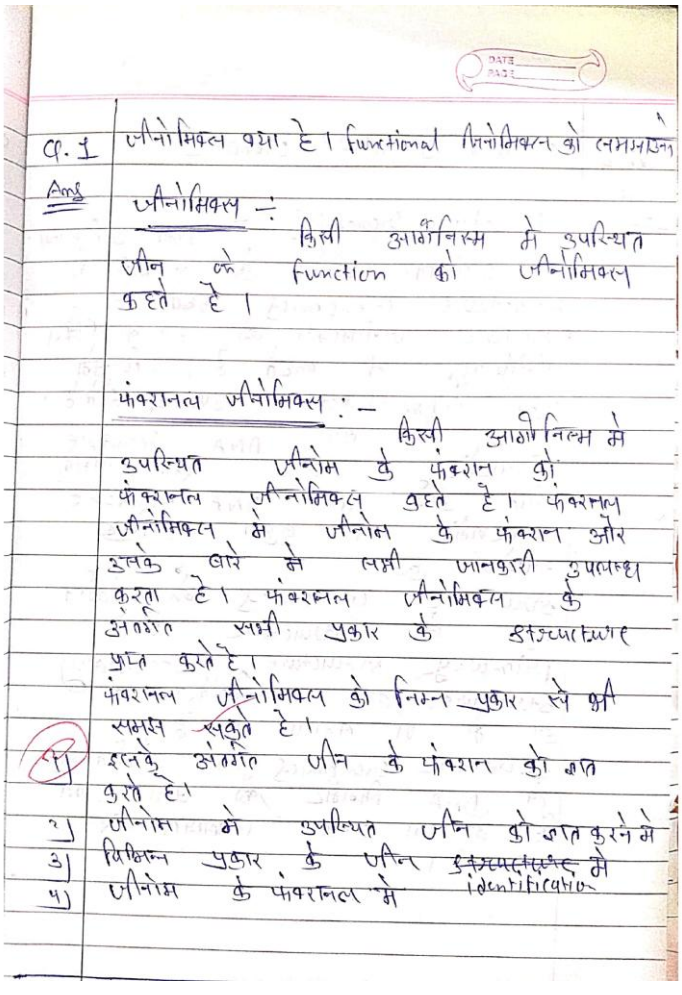
Class - B.Sc IV th Sem B1

Sub - Biainformatics

College - Madhav science college Ujjain

Roll no. - 16143104

Enrollment No. - V16R166050329


Q. 1 जीनोमिक्स क्या है। Functional जिनोमिक्स को समझाइए

Ans

जीनोमिक्स :-

किसी आर्गेनिज्म में उपस्थित जीन के function को जीनोमिक्स कहते है।

फंक्शनल जीनोमिक्स :-

किसी आर्गेनिज्म में उपस्थित जीनोम के फंक्शन को फंक्शनल जीनोमिक्स कहते है। फंक्शनल जीनोमिक्स में जीनोम के फंक्शन और इसके बारे में सभी जानकारी उपलब्ध करता है। फंक्शनल जीनोमिक्स के अंतर्गत सभी प्रकार के इंटरएक्शन्स पूर्ण करते है।

फंक्शनल जीनोमिक्स को निम्न प्रकार से भी समझ सकते है।

इसके अंतर्गत जीन के फंक्शन को ज्ञात करते है।

2) जीनोम में उपस्थित जीन को ज्ञात करने में

3) विभिन्न प्रकार के जीन इंटरएक्शन्स में

4) जीनोम के फंक्शनल में identification

5th Sem

BIOINFORMATICS DEPARTMENT GOVT. MADHAV SCIENCE COLLEGE

SESSION: 2017-18

CLASS: BSC.V SEM.

PAPER : COMPUTATIONAL AND STRUCTURE BIOINFORMATICS

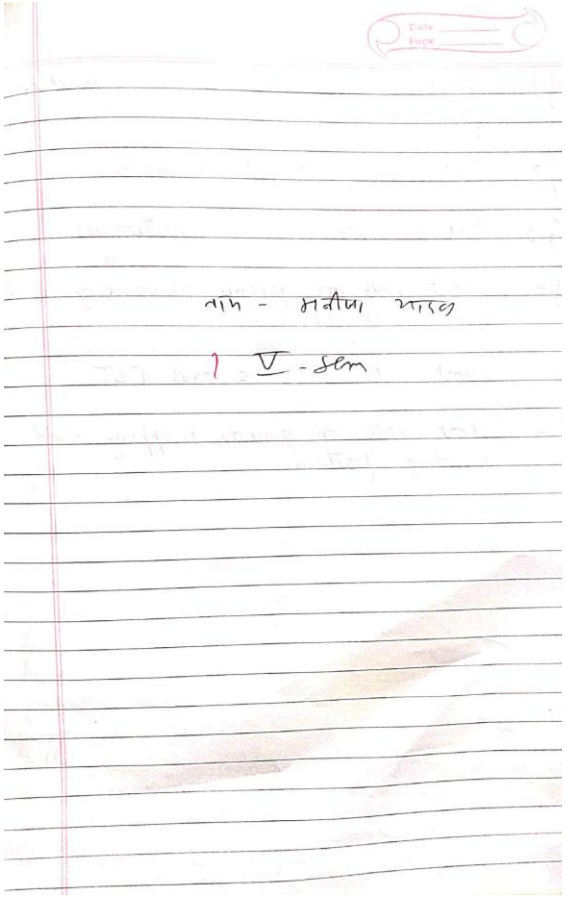
MAX. MARKS : 15

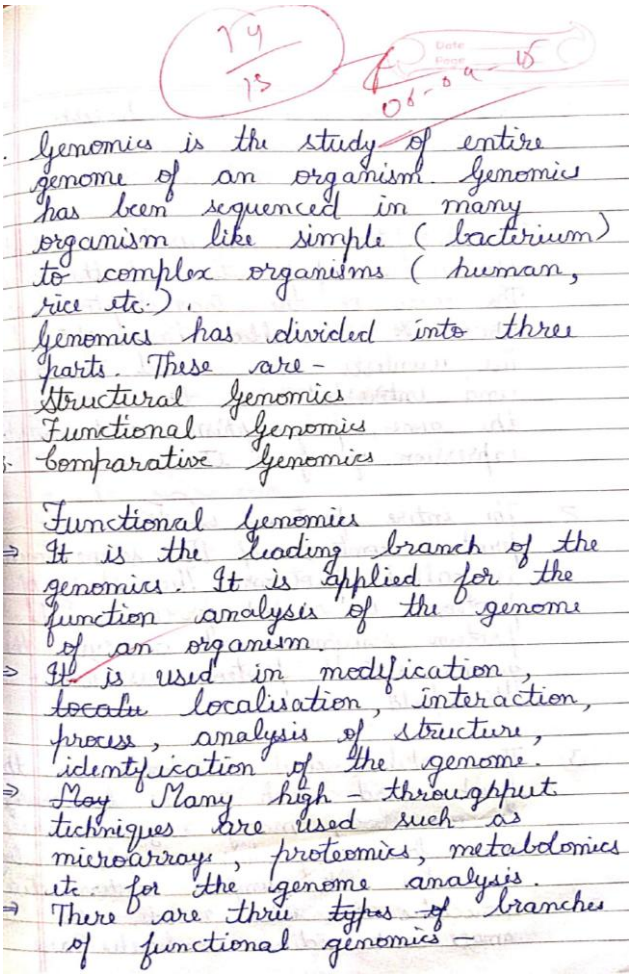
INSTRUCTOR NAME: MR. RAVIKANT YADAV

CCE mode: Multiple Choice Question, learner Centric

Difficulty Level: Moderate

Topic covered: Introduction and working of microarray, Microarray: technique, Design, Analysis, Introduction to Human Genome Project, Introduction to HGO Ethical issues related to HGP





Genomics is the study of entire genome of an organism. Genomics has been sequenced in many organism like simple (bacterium) to complex organisms (human, rice etc.).
Genomics has divided into three parts. These are -
Structural Genomics
Functional Genomics
Comparative Genomics

Functional Genomics
⇒ It is the leading branch of the genomics. It is applied for the function analysis of the genome of an organism.
⇒ It is used in modification, locate localisation, interaction, process, analysis of structure, identification of the genome.
⇒ May Many high - throughput techniques are used such as microarray, proteomics, metabolomics etc. for the genome analysis.
⇒ There are three types of branches of functional genomics -

6th Sem

BIOINFORMATICS DEPARTMENT GOVT. MADHAV SCEINCE COLLAGE

SESSION: 2017-18

CLASS: BSC.VI SEM.

PAPER : MOLECULAR MODELING AND DRUG DESIGN

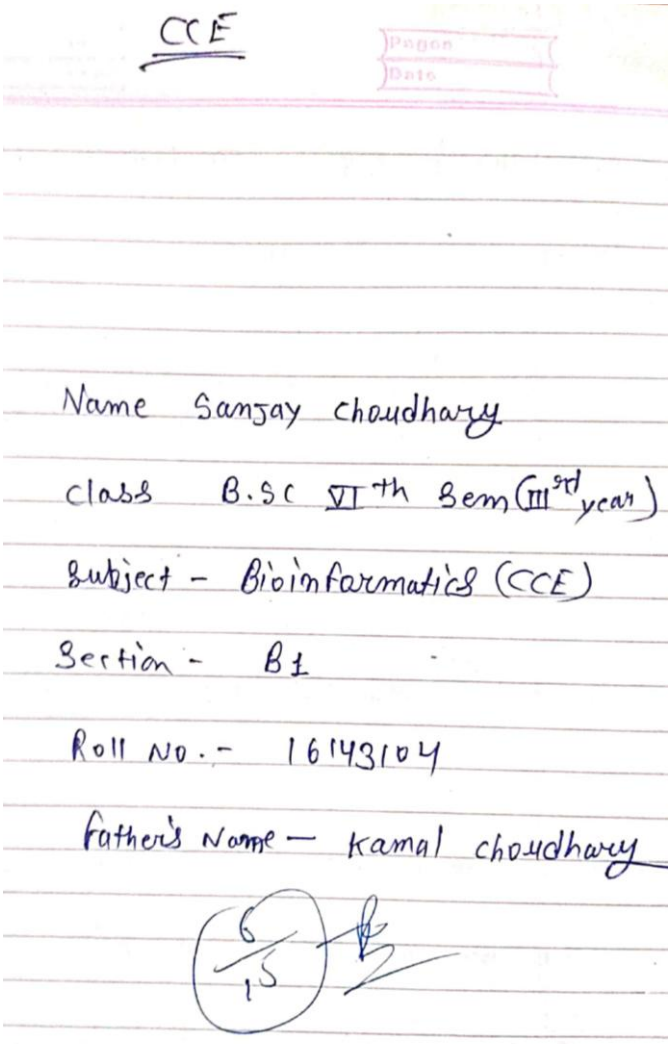
MAX. MARKS : 15

INSTRUCTOR NAME: MR. RAVIKANT YADAV

CCE mode: Multiple Choice Question, learner Centric

Difficulty Level: Moderate

Topic covered: Introduction to Molecular Modeling, Methods of Molecular modelling, Introduction & Technique of Molecular Dynamics &Monti Carlo.



CCE

Name Sanjay choudhary

class B.Sc VI th Sem (III rd year)

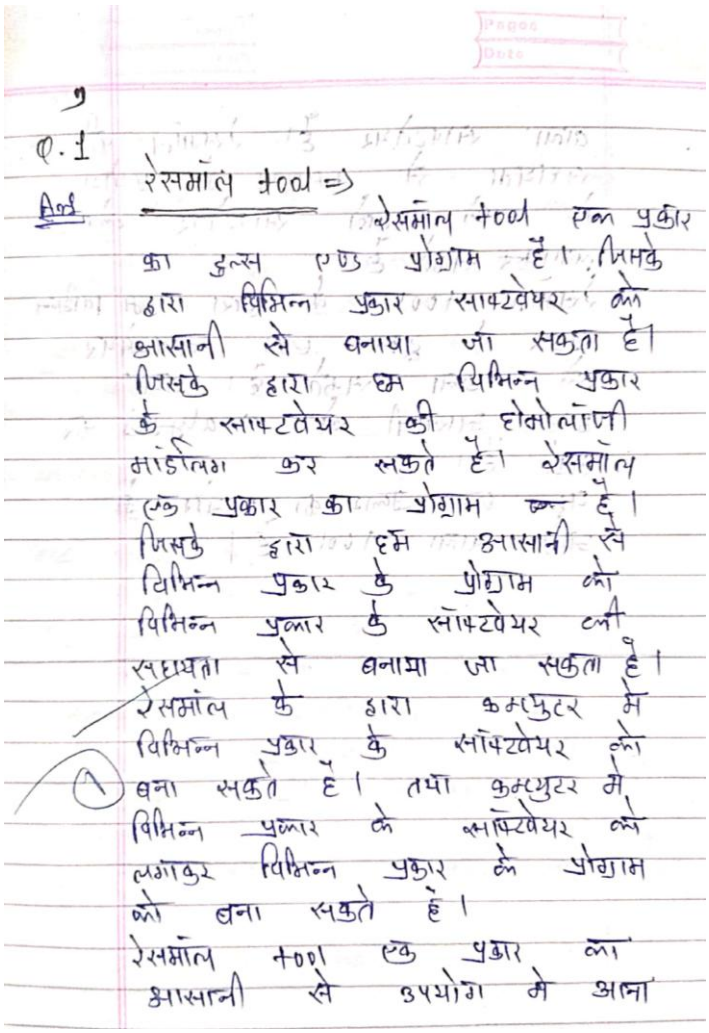
Subject - Bioinformatics (CCE)

Section - B1

Roll No.- 16143104

Father's Name — Kamal choudhary

6/15



Q.1

Ans रेसमॉल tool =>

रेसमॉल tool एक प्रकार का टूल्स एवं प्रोग्राम है। जिसके द्वारा विभिन्न प्रकार सॉफ्टवेयर को आसानी से बनाया जा सकता है। जिसके द्वारा हम विभिन्न प्रकार के सॉफ्टवेयर की होमोलॉजी मॉडलिंग कर सकते है। रेसमॉल एक प्रकार का प्रोग्राम है। जिसके द्वारा हम आसानी से विभिन्न प्रकार के प्रोग्राम को विभिन्न प्रकार के सॉफ्टवेयर की सहायता से बनाया जा सकता है। रेसमॉल के द्वारा कम्प्यूटर में विभिन्न प्रकार के सॉफ्टवेयर को बना सकते है। तथा कम्प्यूटर में विभिन्न प्रकार के सॉफ्टवेयर को लगाकर विभिन्न प्रकार के प्रोग्राम को बना सकते है।

रेसमॉल tool एक प्रकार का आसानी से उपयोग में आना

2018-19

1st Year

BIOINFORMATICS DEPARTMENT GOVT. MADHAV SCEINCE COLLAGE

SESSION: 2018-19

CLASS: BSC.IST YEAR

PAPER 101 : INTRODUCTION OF BIOINFORMATICS

MAX. MARKS : 10

INSTRUCTOR NAME: MR. RAVIKANT YADAV

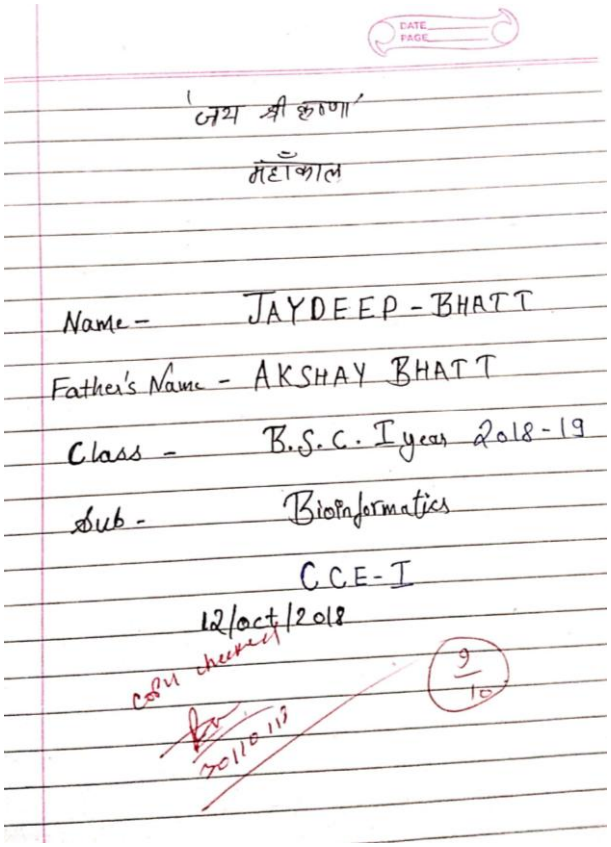
CCE mode: Assignment submission, learner Centric

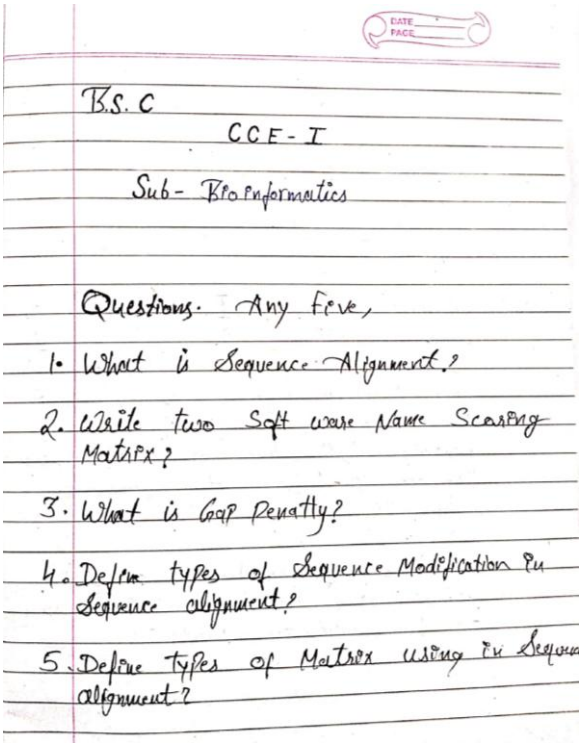
Difficulty Level: Moderate

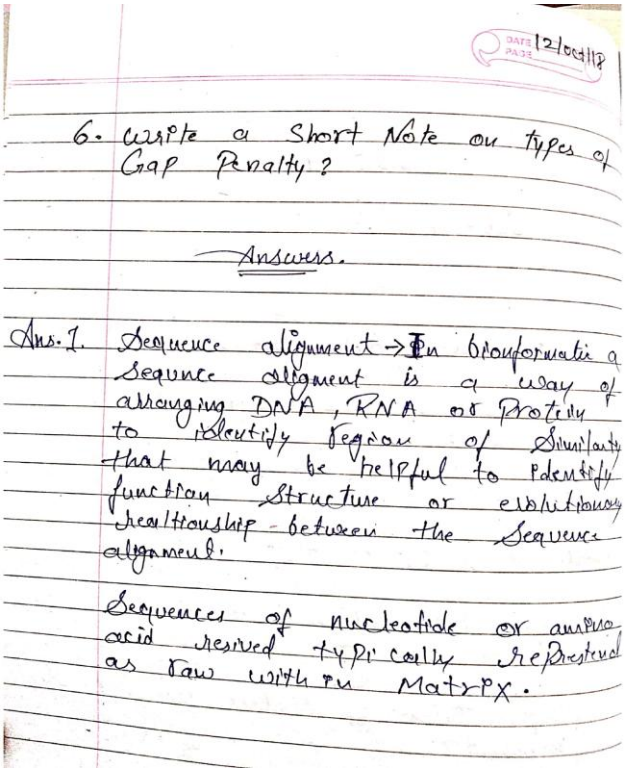
Topic covered: Bioinformatics introduction, Introduction of Biological databases, sequence alignment and types, sequence modification, gap, gap penalty and gap weights, dynamic programming , Introduction to nucleic acid database, Protein sequence database, Introduction to structure database.

Answer any five question.

1. What is sequence alignment?
2. Write two software name of scoring matrix?
3. What is gap penalty?
4. Define type of sequence modification in sequence alignment?
5. Define type of matrix using in sequence alignment?
6. Write short not on type of gap penalty?


जय श्री कृष्णा
महाँकाल
Name - JAYDEEP - BHATT
Father's Name - AKSHAY BHATT
Class - B.S.C. I year 2018-19
Sub - Bioinformatics
CCE-I
12/oct/2018
9/10


B.S.C
CCE-I
Sub- Bioinformatics
Questions. Any Five,
1. What is Sequence Alignment?
2. Write two Soft ware Name Scoring Matrix?
3. What is Gap Penalty?
4. Define types of Sequence Modification in Sequence alignment?
5. Define types of Matrix using in Sequence alignment?


6. Write a Short Note on types of Gap Penalty?
Answers.
Ans. 1. Sequence alignment → In bioinformatics a Sequence alignment is a way of arranging DNA, RNA or Protein to identify region of Similarity that may be helpful to Identify function Structure or evolutionary realtionship between the Sequences alignment.
Sequences of nucleotide or amino acid resived typically represented as Raw with in Matrix.

2nd Sem

BIOINFORMATICS DEPARTMENT GOVT. MADHAV SCEINCE COLLAGE

SESSION: 2018-19

CLASS: BSC.IST YEAR

PAPER 101 : INTRODUCTION COMPUTER AND PROGRAMMING

MAX. MARKS : 10

INSTRUCTOR NAME: MR. RAVIKANT YADAV

CCE mode: Written Teat, learner Centric.

Difficulty Level: Moderate

Topic covered: Introduction of computer, computer component and number system.

CCE - IInd

(9)

Govt. Madhav Science P.G. Coliege, Ujjain

Department of Bioinformatics
Govt. Madhav V.P. Kan Mahavidyalaya
Signature of Principal

Question No.	Marks Obtained
1	
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Total	
Out of	

Roll No :- 17109474
Name : MAHESH KUMAR DANGI
Father's Name : KAILASH CHANDRA DANGI
Class : B.Sc IInd year
Section : B2 (Bioinformatics)
Subject : Bioinformatics
Date of Examination : 02/02/2019
Signature of Invigilator :

Signature of Valuer

9.6/10

Section-C

1. or

Generation of Computer :- अब तक Computers की चार Generation बीत चुकी है, और वर्तमान मे 5th Generation प्रचलन मे है।

1. प्रथम पीढ़ी :-
यह पीढ़ी सन् 1951 से 1959 तक प्रचलित थी। इनमे Vacuum Tube का उपयोग किया जाता था। यह इस पीढ़ी के कम्प्युटर ~~बहुत~~ महंगे होते थे साथ ही इनकी Speed भी बहुत slow थी।

2. द्वितीय पीढ़ी :-
यह पीढ़ी सन् 1959 से 1964 तक प्रचलन मे थी। इस पीढ़ी के Computers मे ट्रांजिस्टर का उपयोग किया जाता था।

5th Sem

BIOINFORMATICS DEPARTMENT GOVT. MADHAV SCIENCE COLLEGE

SESSION: 2018-19

CLASS: BSC.V SEM.

PAPER : COMPUTATIONAL AND STRUCTURE BIOINFORMATICS

MAX. MARKS : 15

INSTRUCTOR NAME: Pradeep Saini

CCE mode: Written test, learner Centric

Difficulty Level: Moderate

Topic covered: Introduction of Phylogenetic Analysis, Methods Of Phylogenetic Analysis, Structural features of RNA: Primary, Secondary, Tertiary, Protein Tertiary structure prediction methods: Homology Modeling, Fold Recognition, Abintio Method

Name - Vikash chouhan
Bsc. V Sem (B1)
Sub. Bioinformatics
Roll. No. 16143111
2018-19

8/10 4.12.18

Q1) microarray क्या है -
Ans. DNA microarray जीन Expression level तकनीक है।
जिसका उपयोग Analysis करने में किया जाता है
DNA माइक्रोऐरे को हम DNA chip भी कहते हैं
इसे DNA chip, micro chip, Biochip, DNA Array, micro Array आदि नामों से भी जाना जाता है।
DNA microarray को सबसे पहले 1990 में प्रस्तावित किया गया था
जिसका उपयोग DNA के hybridization में किया जाता है DNA.

6th Sem

BIOINFORMATICS DEPARTMENT GOVT. MADHAV SCEINCE COLLAGE

SESSION: 2018-19

CLASS: BSC.VI SEM.

PAPER : MOLECULAR MODELING AND DRUG DESIGN

MAX. MARKS : 15

INSTRUCTOR NAME: MR. RAVIKANT YADAV

CCE mode: Written test, learner Centric

Difficulty Level: Moderate

Topic covered: Introduction to Molecular Modeling, Methods of Molecular modelling, Introduction & Technique of Molecular Dynamics &Monti Carlo.

Name — kavita Rathore

Class — B.Sc VI Sem.

Subject — Bioinformatics

Roll no — 16143084

4/15

Question no - 4

Q - SAR →

QSAR एक ऐसा मॉडल है। जो प्रोटिन मोलिकुलर की डिजाइन मे उपयोग किया जाता है। QSAR द्वारा प्रोटिन मोलिक्युल structure का पता करके उसका result निकाला जा सकता है।

Protein structure के द्वारा Q-SAR एक मोलिक्यूल का पता लगाते है।

Q-SAR ऐसा मोडल है जो protein molecular का result निकालता है।

यह protein की structure को निकालकर उसका result देता है।

Q SAR मे NCBI के द्वारा इसे बनाया जाता है और उसका result निकाला जाता है।

यह molecule structure की primary, secondary व thartory के structure को निकालता है।

यह Q-SAR एक ऐसा molecular है जो होमोलॉजी मोडलिंग की सहायता से अपना कार्य करता है।

QSAR के द्वारा होमोलॉजी

2019-20

1st Year

BIOINFORMATICS DEPARTMENT GOVT. MADHAV SCEINCE COLLAGE

SESSION: 2019-20

CLASS: BSC.IST YEAR

PAPER 101 : INTRODUCTION OF BIOINFORMATICS

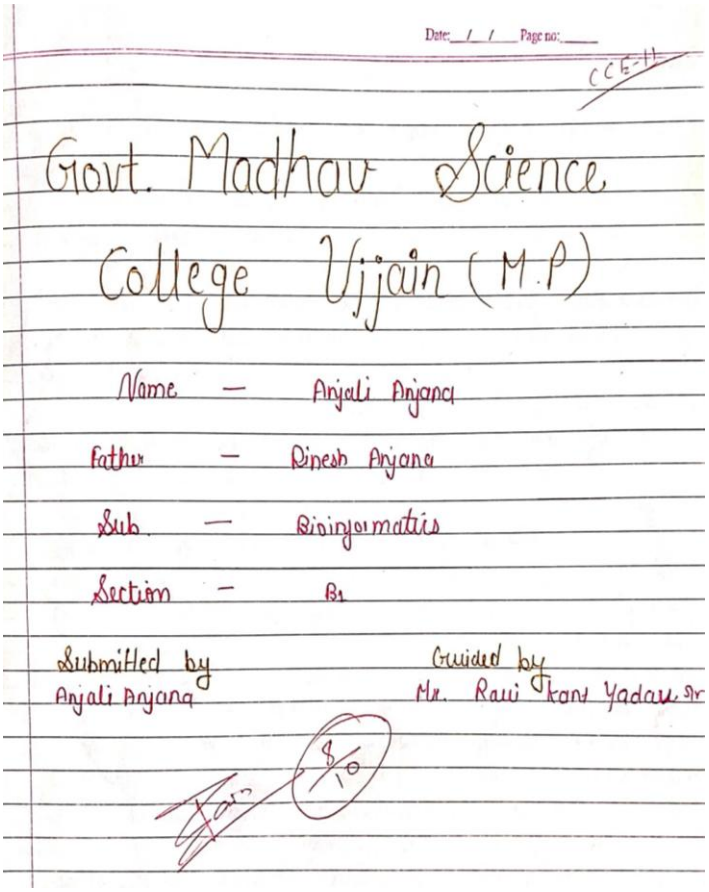
MAX. MARKS : 10

INSTRUCTOR NAME: MR. RAVIKANT YADAV

CCE mode: Written Teat, learner Centric.

Difficulty Level: Moderate

Topic covered: Bioinformatics introduction , Introduction of Biological databases.



Govt. Madhav Science College Ujjain (M.P)

Name – Anjali Anjana

Father – Dinesh Anjana

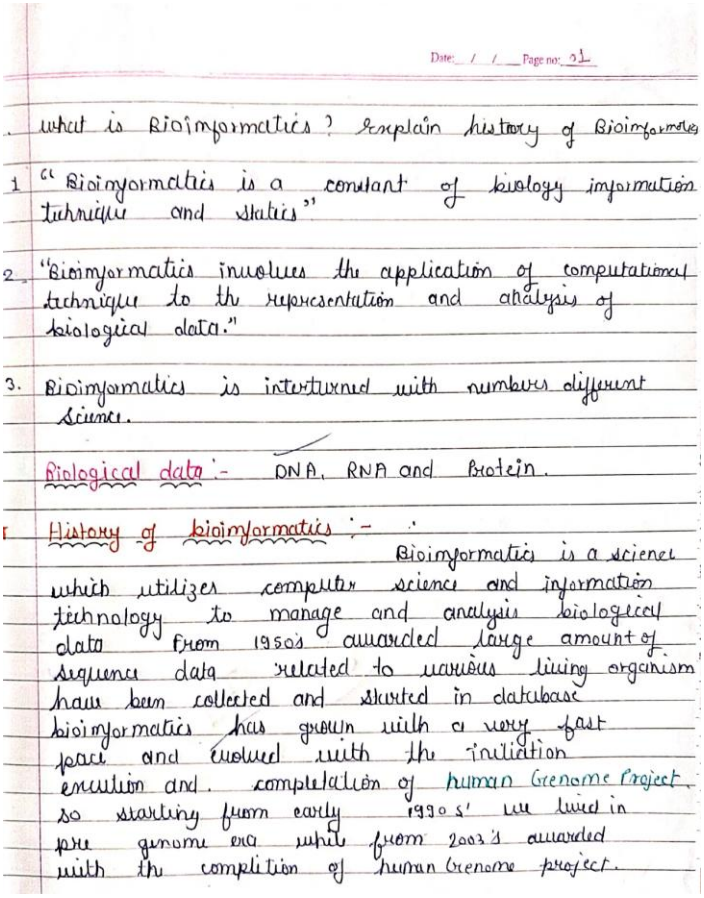
Sub. – Bioinformatics

Section – B1

Submitted by
Anjali Anjana

Guided by
Mr. Ravi Kant Yadav Sir

8/10



1. what is Bioinformatics ? Explain history of Bioinformatics

1 "Bioinformatics is a constant of biology information technique and statics"

2. "Bioinformatics involves the application of computational technique to the representation and analysis of biological data."

3. Bioinformatics is interturned with numbers different Scince.

Biological data :- DNA, RNA and Protein.

History of bioinformatics :-

Bioinformatics is a science which utilizes computer science and information technology to manage and analysis biological data From 1950's awarded large amount of sequence data related to various living organism have been collected and started in database bioinformatics has grown with a very fast pace and evolved with the initiation execution and completation of human Grenome Project. so starting from early 1990's we lived in pre genome era while from 2003's awarded with the completion of human Grenome project.

3rd Year

BIOINFORMATICS DEPARTMENT GOVT. MADHAV SCEINCE COLLAGE

SESSION: 2019-20

CLASS: BSC.III YEAR

PAPER 301 : Biostatistics

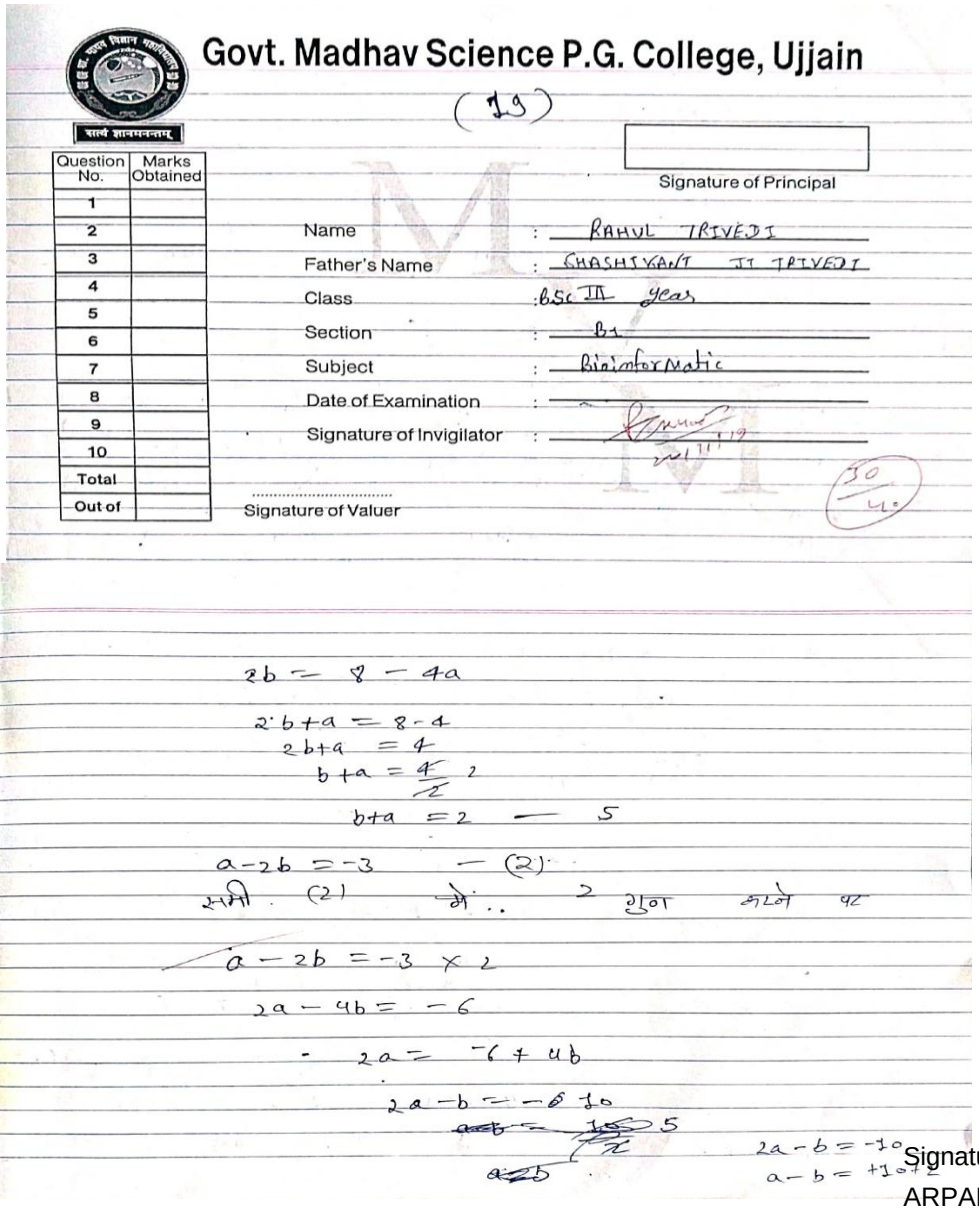
MAX. MARKS : 10

INSTRUCTOR NAME: MR. RAVIKANT YADAV

CCE mode: Assignment submission, learner Centric.

Difficulty Level: Moderate

Topic covered: Introduction of Biostatistics, data collection, central tendency and probability .



Govt. Madhav Science P.G. College, Ujjain

(19)

Signature of Principal

Question No.	Marks Obtained
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10	
Total	
Out of	

Name : RAHUL TRIVEDI
Father's Name : SHASHIKANT JI TRIVEDI
Class : B.Sc III Year
Section : B1
Subject : Bioinformatic
Date of Examination :
Signature of Invigilator :

Signature of Valuer

10/40

$2b = 8 - 4a$

$2b + a = 8 - 4$

$2b + a = 4$

$b + a = \frac{4}{2}$ 2

$b + a = 2$ — 5

$a - 2b = -3$ — (2)

$a - 2b = -3 \times 2$

$2a - 4b = -6$

$2a = -6 + 4b$

$2a - b = -6 + 10$

$a - b = +10 + 2$

CCE

Biotechnology

S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Sem	2015-16	Biotechnology	Short Answer Type test, Chart preparation
2.	B.Sc. 2nd Sem	2015-16	Biotechnology	Long Answer Type test, Chart Preparation
3.	B.Sc. 3rd Sem	2015-16	Biotechnology	Assignment, Chart Preparation
4.	B.Sc. 4rt Sem	2015-16	Biotechnology	Long Answer Type test, Chart Preparation
5.	B.Sc. 5th Sem	2015-16	Biotechnology	Chart on various topics, Assignment
6.	B.Sc. 6th Sem	2015-16	Biotechnology	Model Preparation, Assignment

S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Sem	2016-17	Biotechnology	Long Answer Type test, Chart Preparation
2.	B.Sc. 2nd Sem	2016-17	Biotechnology	Assignment, Chart Preparation
3.	B.Sc. 3rd Sem	2016-17	Biotechnology	Short Answer Type test, Chart Preparation
4.	B.Sc. 4rt Sem	2016-17	Biotechnology	Chart on various topics, Assignment
5.	B.Sc. 5th Sem	2016-17	Biotechnology	Short Answer Type test, Chart Preparation
6.	B.Sc. 6th Sem	2016-17	Biotechnology	Long Answer Type test, Chart Preparation

S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Year	2017-18	Biotechnology	Assignment, Chart Preparation
2.	B.Sc. 3rd Sem	2017-18	Biotechnology	Short Answer Type test, Chart Preparation
3.	B.Sc. 4rt Sem	2017-18	Biotechnology	Short Answer Type test, Chart Preparation
4.	B.Sc. 5th Sem	2017-18	Biotechnology	Charts on various topics, Assignment
5.	B.Sc. 6th Sem	2017-18	Biotechnology	Long Answer Type test, Chart Preparation

S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Year	2018-19	Biotechnology	Assignment, Chart Preparation
2.	B.Sc. 2nd Year	2018-19	Biotechnology	Assignment, Chart Preparation
3.	B.Sc. 5th Sem	2018-19	Biotechnology	Long Answer Type test, Chart Preparation
4.	B.Sc. 6th Sem	2018-19	Biotechnology	Model Preparation, Assignment

S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Year	2019-20	Biotechnology	Charts on various topics, Assignment
2.	B.Sc. 2nd Year	2019-20	Biotechnology	Long Answer Type test, Chart Preparation
3.	B.Sc. 3rd Year	2019-20	Biotechnology	Assignment, Chart Preparation

2015-16

Govt. Madhav Science College, Ujjain

Department of Biotechnology

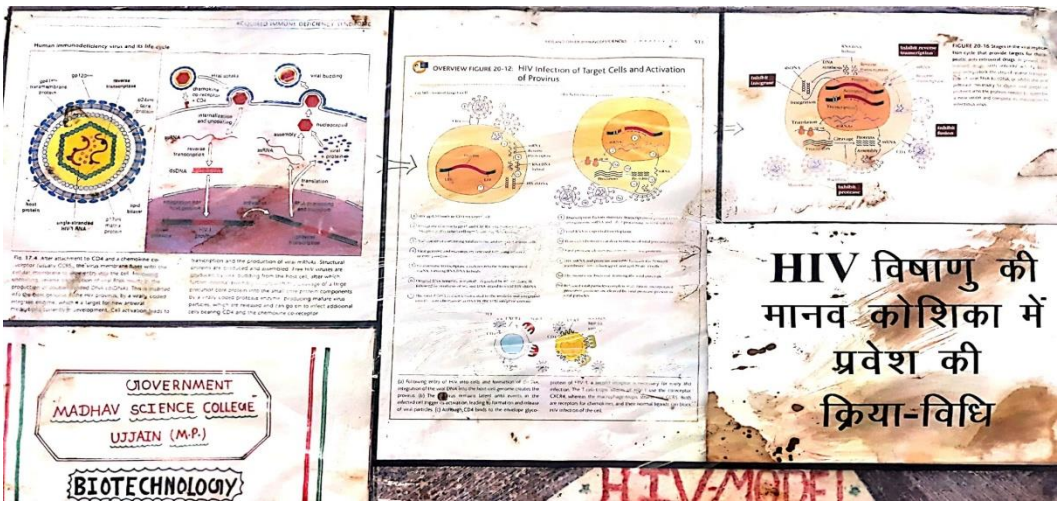
B.Sc. I Sem.

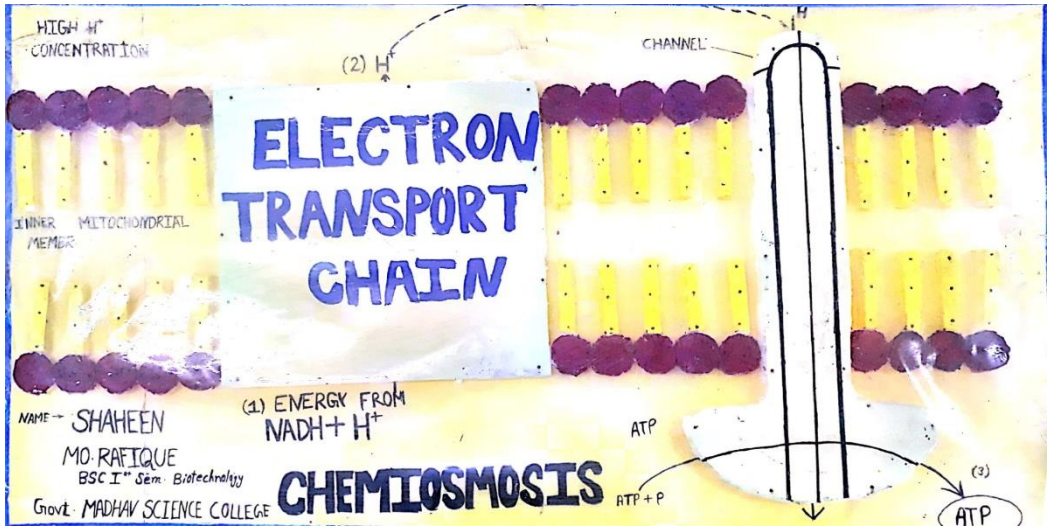
2015-16

Short Answer Type Question

Marks Max.-15

1. Write a short note on Peptidogycan.
2. Define Enzymes.
3. Write applications of Chromatography.
4. Draw well labeled diagram of Clover leaf model of t-RNA.





Govt. Madhav Science College, Ujjain

Department of Biotechnology

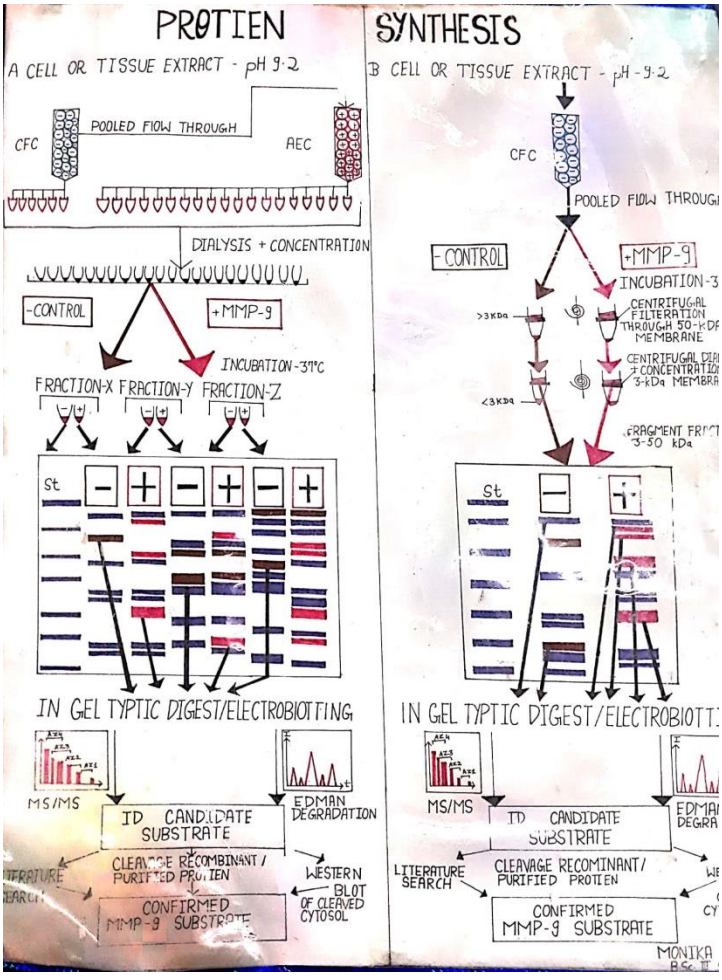
B.Sc. II Sem.

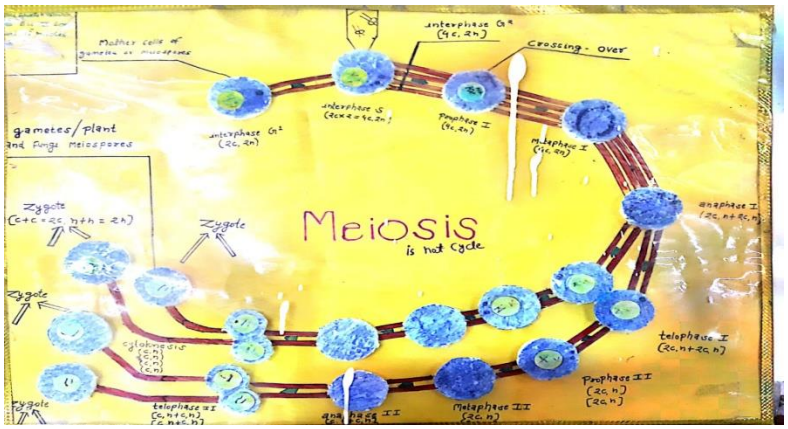
2015-16

Long Answer Type Question

Marks Max.-15

1. **Write Short note-**
   1. **PPLO**
   2. **Virus**
2. **Explain microbiological Media with its types.**





Govt. Madhav Science College, Ujjain

Department of Biotechnology

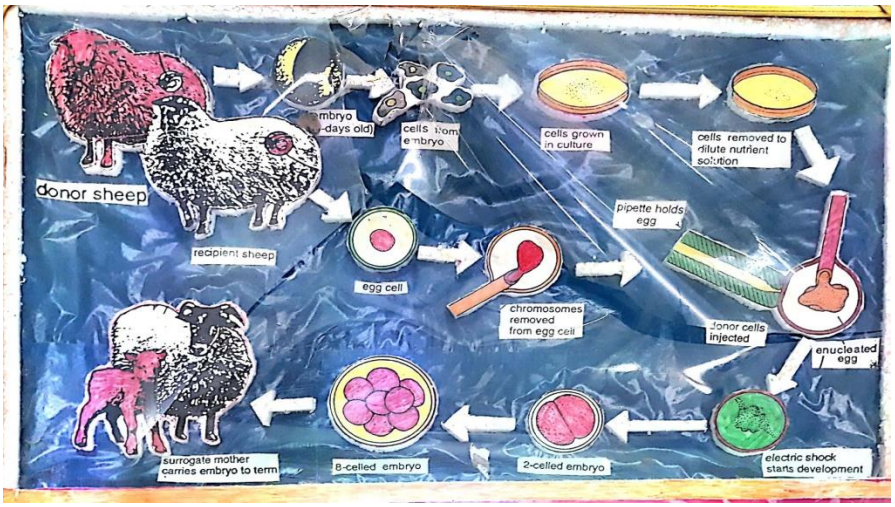
B.Sc. III Sem.

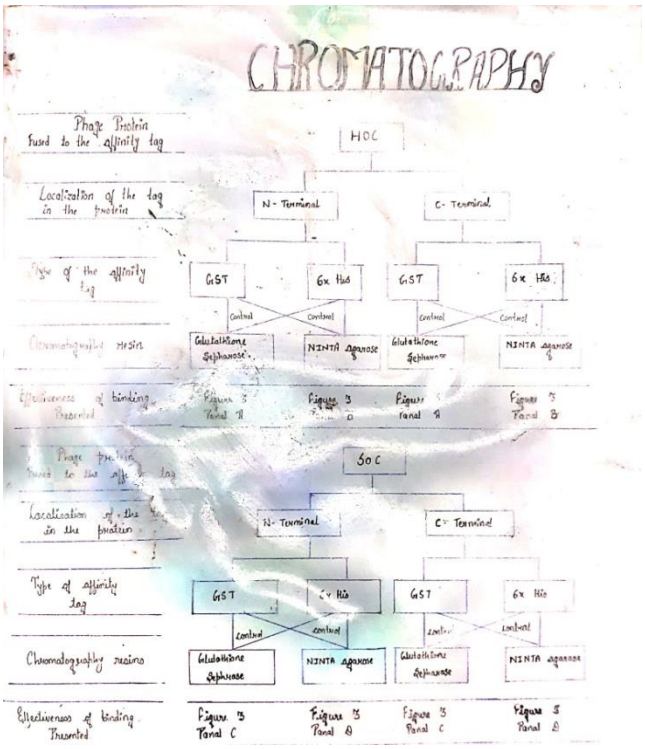
2015-16

Assignment Question

Marks Max.-15

1. **Explain C-value paradox.**
2. **What is linkage and crossing over explain.**
3. **Write a note on chromosomal aberrations.**
4. **Write the different methods for DNA sequencing.**





Govt. Madhav Science College, Ujjain

Department of Biotechnology

B.Sc. IV Sem.

2015-16

Long Answer Type Question

Marks Max.-15

1. **Explain the industrial production of Penicillin.**
2. **What is Probability. Explain with example.**

Govt. Madhav Science College, Ujjain

Department of Biotechnology

B.Sc. V Sem.

2015-16

Assignment Type Question

Marks Max.-15

1. **Write a brief note on PCR.**
2. **What is Hybridoma Technology. Explain.**
3. **Describe cloning and regeneration.**
4. **Write an essay on the Immobilization of Enzymes.**

Govt. Madhav Science College, Ujjain

Department of Biotechnology

B.Sc. VI Sem.

2015-16

Assignment Type Question

Marks Max.-15

1. **Describe host defense mechanism.**
2. **Write a brief note on organs of immune system.**
3. **Explain antigen antibody reactions.**
4. **Write an essay on the transplantation immunology.**

Govt. Madhav Science College, Ujjain

Department of Biotechnology

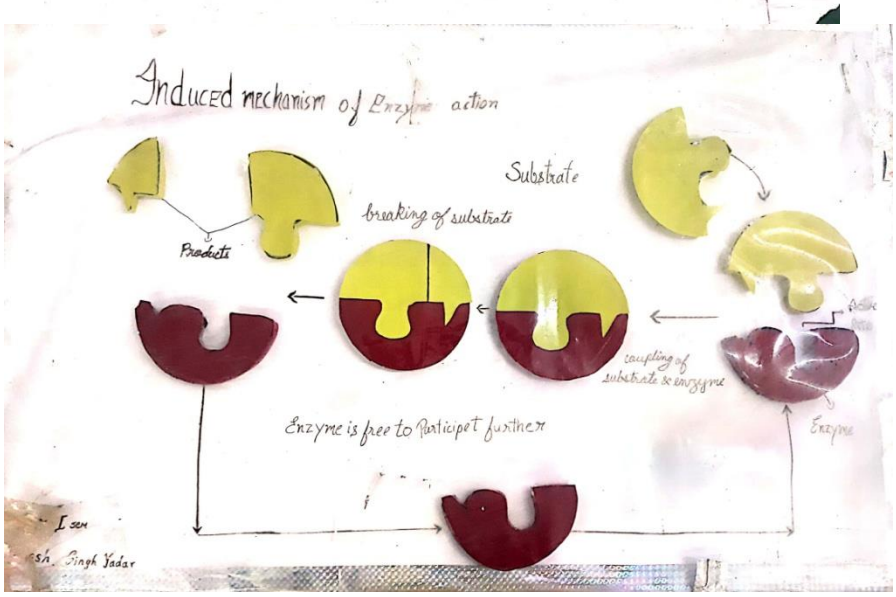
B.Sc. I Sem.

2016-17

Long Answer Type Question

Marks Max.-15

1. **Write a note on classification of carbohydrates.**
2. **Explain the enzyme mechanism.**



2nd Sem

Govt. Madhav Science College, Ujjain

Department of Biotechnology

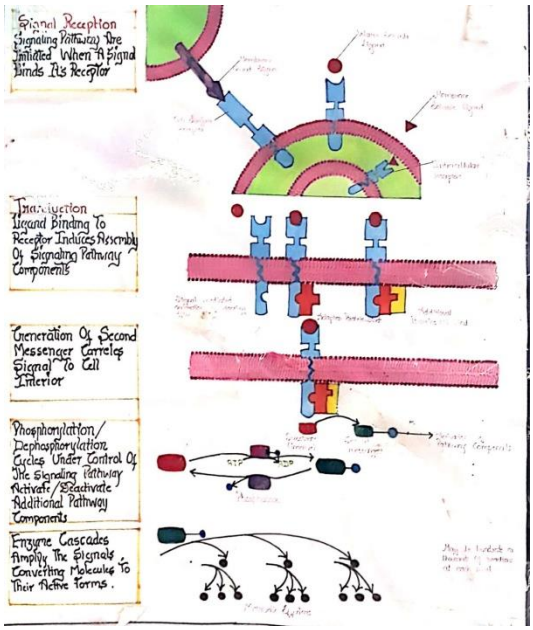
B.Sc. II Sem

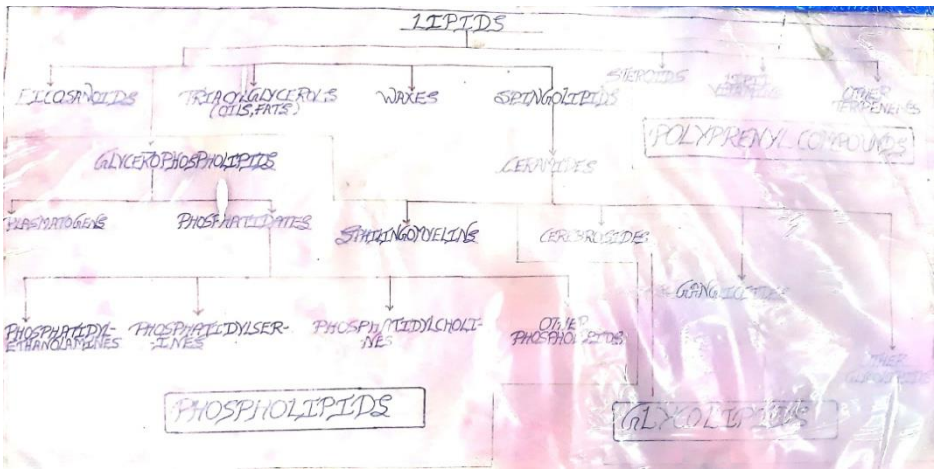
2016-17

Assignment Question

Marks Max.-15

1. **Write the contribution of Louis Pasteur in microbiology.**
2. **Explain the bacterial cell structure.**
3. **Draw the growth curve of bacterial cell.**
4. **Write the working and instrumentation of bright field microscope.**





3rd Sem

Govt. Madhav Science College, Ujjain

Department of Biotechnology

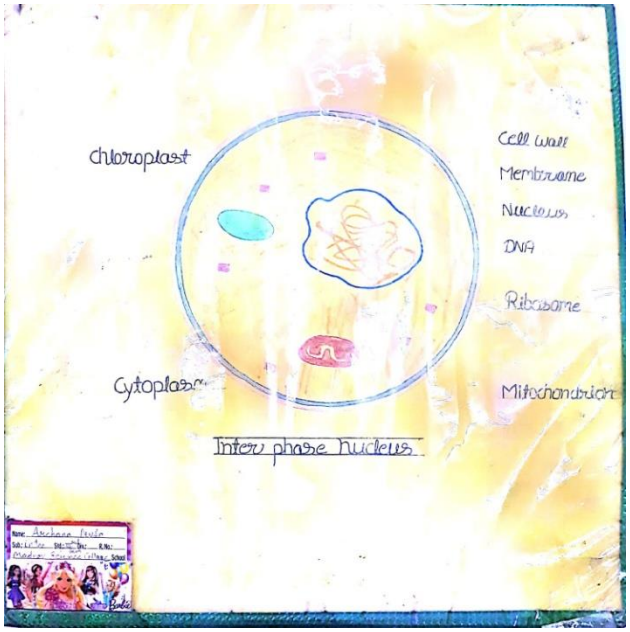
B.Sc. III Sem.

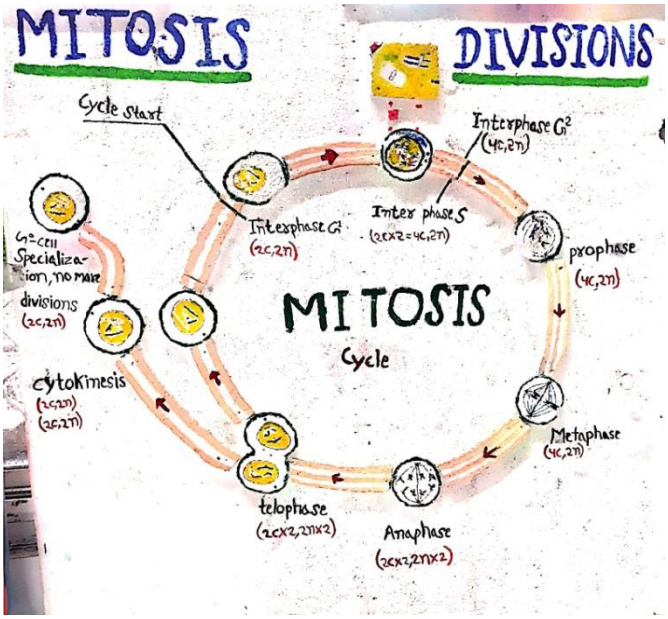
2016-17

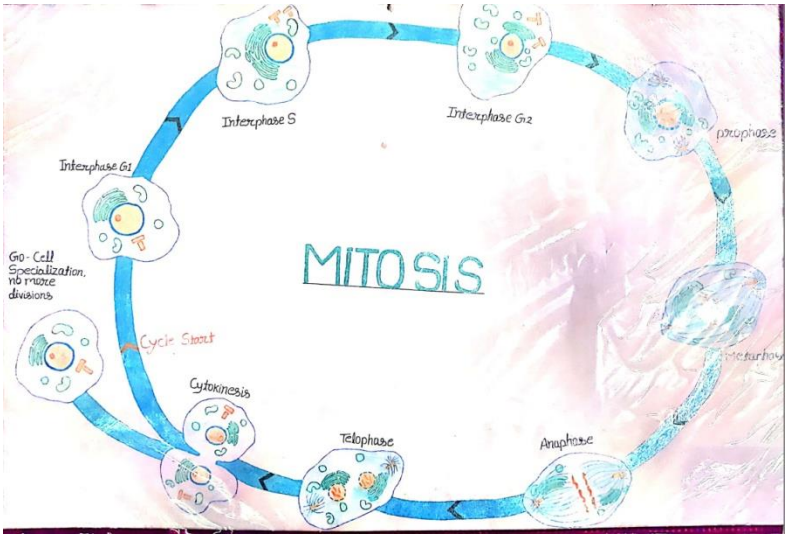
Short Answer Type Question

Marks Max.-15

1. **Explain Cell cycle.**
2. **Write a note on Genetic Code.**
3. **What is Banding Technique.**
4. **Define Synaptonimal complex.**







Govt. Madhav Science P.G. College, Ujjain (M.P.)

Department of Zoology
M.Sc. I Sem. CCE 2018-19
Paper III
Quantitative Zoology, Biodiversity and Wild Life
- Dr. Anil Pandey and Dr. Seema Trivedi

Mode: Assignment and Presentation

S.No.	Roll No.	Name of Student	Topic
1	18180331	Aayushi Gosar	Wild Life Sanctuaries
2	18180332	Abhilasha Masaniya	Correlation
3	18180333	Amit Vyas	Value of Wild Life
4	18180334	Ankita Davda	Biodiversity Conservation Method
5	18180336	Aruna Jawariya	Exponential Function
6	18180337	Hukum Singh Rathod	Project Tiger
7	18180338	Jayant Chouhan	Crocodile Breeding Project
8	18180339	Jayshree Patidar	Regression Analysis
9	18180340	Jitendra	Conservation of Wild Life in India
10	18180343	Karan Parmar	Wild Life in M.P. with reference to Reptiles, Birds and Mammals
11	18180344	Kavita Dangi	Matrices and Vectors
12	18180345	Khushboo Padihar	Endangered and Threatened Species
13	18180346	Kirti Bihaniya	Medieval uses of forest plants
14	18180352	Neha Choudhary	Concept and Principle of Biodiversity
15	18180354	Pooja Sisodiya	Project Tiger
16	18180356	Ravindra Malviya	Analysis of Variance
17	18180357	Rekha Gundiya	Biosphere Reserves
18	18180358	Shahnawaz Khan	National Parks of India
19	18180359	Shayana Khan	Endangered and Threatened Species of India
20	18180360	Shivani Rami	Values of Wild Life Positive and Negative
21	18180361	Shweta Choudhary	Causes of Loss of Biodiversity
22	18180362	Usha Bhuriya	Wild Life Protection Act
23	18180371	Azher Qureshi	Project Tiger
24	18180372	Kavita Sharma	Matrices and Vectors
25	18180374	Reeta Bhawsar	Regression
26	17109628	Vinod Gehlot	Medieval use of Forest Plant
27	18180348	Lalita Dangi	Biosphere Reserves
28	18180358	Manisha Malviya	Values of Wild Life Positive and Negative
29	18180342	Kalpna Gome	Biodiversity Conservation Method
30	18180347	Kajal Singhaniya	Biodiversity Conservation Method
31	18180341	Jyoti Sharma	Wild Life Protection Act
32	18180355	Rajesh Jat	Endangered and Threatened Species

Govt. Madhav Science P.G. College, Ujjain (M.P.)

Department of Zoology

M.Sc. I Sem. CCE 2018-19

Paper IV

Biomolecules and Structural Biology

- **Dr. Shehla Ishaque and Dr. Rekha Khanna**

Mode: Assignment and Presentation

S.No.	Roll No.	Name of Student	Topic
1	18103331	Aayushi Gosar	Biomaterials
2	18180332	Abhilasha Masaniya	DNA & RNA : Double Helical Structure of DNA and RNA
3	18180333	Amit Vyas	Mechanism of Enzyme Action
4	18180334	Ankita Davda	Protein Synthesis in Eurkaryotic Cells
5	18180335	Arti Tailor	Classification and Basis of Enzyme Kineties
6	18180336	Aruna Jawariya	pH, pK, Acid, Bases, Buffers, Weak Bonds
7	18180337	Hukum Singh Rathod	Nano Particles
8	18180338	Jayant Chouhan	DNA & RNA : Double Helical Structure of DNA and RNA
9	18180339	Jayshree Patidar	Biomaterials
10	18180340	Jitendra Rajoria	DNA duplication, Recombination & Repair
11	18180341	Jyoti Sharma	Lac operon – Returned
12	18180342	Kalpana Gome	Acid soluble pool of living tissues, Amino acid, Monosachharide, Oligosachharide.
13	18180343	Karan Parmar	DNA Replication, Recombination and Repair
14	18180344	Kavita Dangi	Glycolysis and Glyconeogenesis
15	18180345	Khushboo Padihar	Protein Synthesis in Eukaryotic
16	18180346	Kirti Bihaniya	DNA Replication, Recombination and Repair
17	18180347	Koyal Singhaniya	Monosachharides, Oligosachharides, Nucleotides and Peptides
18	18180348	Lalita Dangi	Protein Synthesis in Eukaryotic
19	18180349	Mahima Suryavanshi	Basic concept of metabolism, coupled and interconnecting reaction of metabolism, cellular energy resources and ATP synthesis.

20	18180350	Maniha Malviya	Protein synthesis
21	18180351	Maya Panwar	Regulation of Enzymes
22	18180352	Neha Choudhary	RNA Synthesis and Splicing
23	1810353	Nidhi Malviya	Functional Importance of Lipid Storage and Membrane Lipids
24	1810354	Pooja Sisodiya	Nanoparticles
25	1810355	Rajesh Jat	DNA & RNA : Double Helical Structure of DNA.
26	1810356	Ravindar Malviya	Biosynthesis of Nucleotides
27	1810357	Rekha Gundiya	pH, pK, acids, bases, buffers, weak bonds
28	1810358	Shahnawaz Khan	Concept of free energy and thermodynamic principles in Biology
29	1810359	Shayana Khan	Glycolysis and Glyconeogenesis
30	1810360	Shivani Rami	Basic concept of metabolism : Coupled and interconnection reaction of metabolism, cellular energy resources and ATPs.
31	1810361	Shweta Choudhary	Protein synthesis
32	1810362	Usha Bhuriya	Oxidative phosphorylation, protein and its regulation
33	1810363	Vijay Kumar Solanki	Nano Particles
34	1810371	Azher Qureshi	Biosynthesis of amino acids
35	1810372	Kavita Sharma	Protein synthesis
36	1810373	Palkin Bhawsar	Regulation of Enzymes
37	1810374	Reetu Bhawsar	Mechanism of Enzyme Action.

Govt. Madhav Science P.G. College, Ujjain (M.P.)

Department of Zoology

M.Sc. I Sem. CCE 2019-20

Paper IV

Biomolecules and Structural Biology

- **Dr. Shehla Ishaque and Dr. Rekha Khanna**

Mode: Assignment and Presentation

S.No.	Roll No.	Name of Student	Topic
1	19195330	Anil Bamniya	Questions related to Paper IV - Returned
2	19195331	Atul Singh Rajput	Questions related to Paper IV - Returned
3	19195332	Ayushi Bhawsar	Questions related to Paper IV - Returned
4	19195333	Balveer	Questions related to Paper IV - Returned
5	19195334	Bhawana Chauhan	Questions related to Paper IV - Returned
6	19195335	Bhavana Bhimavad	Questions related to Paper IV - Returned
7	19195336	Darshana	Questions related to Paper IV - Returned
8	19195337	Devkala	Questions related to Paper IV - Returned
9	19195338	Dilshad Mev	Questions related to Paper IV - Returned
10	19195339	Divya Patidar	Questions related to Paper IV - Returned
11	19195340	Garima Aacharya	Questions related to Paper IV - Returned
12	19195341	Gulnaz Khan	Questions related to Paper IV - Returned
13	19195342	Harshita Jain	Nucleotides
14	19195343	Jaya Pandey	Questions related to Paper IV - Returned
15	19195344	Jayshri Sharma	Questions related to Paper IV - Returned
16	19195345	Johar Banu	Questions related to Paper IV - Returned
17	19195346	Jyoti Sharma	Questions related to Paper IV - Returned
18	19195347	Krihsna Sharma	Questions related to Paper IV - Returned
19	19195348	Kiran Waskel	Questions related to Paper IV - Returned
20	19195349	Komal Maheshwari	Questions related to Paper IV - Returned
21	19195350	Kusum Bhilala	Questions related to Paper IV - Returned
22	19195351	Laxmi Mori	Questions related to Paper IV - Returned
23	19195352	Madhu Patidar	Questions related to Paper IV - Returned
24	19195353	Manali Bhawsar	Questions related to Paper IV - Returned
25	19195354	Mayank Parihar	Questions related to Paper IV - Returned
26	19195355	Mohammad Shafiq	Questions related to Paper IV - Returned
27	19195356	Mohini Sharma	Questions related to Paper IV - Returned
28	19195357	Monika Patidar	Olligosachharides, DNA Repair, Fatty Acids, ATP, Lipid, RNA Synthesis
29	19195358	Monika Yadav	Questions related to Paper IV - Returned
30	19195359	Nidhi Umath	Questions related to Paper IV - Returned
31	19195360	Payal Rathore	Amino acids

32	19195361	Poonam Binjhade	Questions related to Paper IV - Returned
33	19195362	Priyanka Dwivedi	Questions related to Paper IV - Returned
34	19195363	Priyanka Rathore	Questions related to Paper IV - Returned
35	19195364	Priyanka Tailor	Questions related to Paper IV - Returned
36	19195365	Rahul Chawalkar	Questions related to Paper IV - Returned
37	19195366	Rajni Malviya	Questions related to Paper IV - Returned
38	19195367	Ravina Chaudhari	Questions related to Paper IV - Returned
39	19195368	Reetu Patidar	Questions related to Paper IV
40	19195369	Rishita Jain	Nucleotides
41	19195370	Rohit Kumar	Questions related to Paper IV - Returned
42	19195371	Roshanee Vasuniya	Questions related to Paper IV - Returned
43	19195372	Sadhana Mandloi	Questions related to Paper IV - Returned
44	19195373	Sanjay Panchal	Questions related to Paper IV - Returned
45	19195374	Shruti Sharma	Questions related to Paper IV - Returned
46	19195375	Sweta Alawa	Questions related to Paper IV - Returned
47	19195376	Sohan Sonvaniya	Lipid Storage
48	19195377	Sonam Saurashtry	Questions related to Paper IV - Returned
49	19195378	Sujata Soni	Questions related to Paper IV - Returned
50	19195379	Uma Gothi	Questions related to Paper IV - Returned
51	19195387	Vipul Dwivedi	Questions related to Paper IV - Returned
52	18180371	Azher Qureshi	Questions related to Paper IV - Returned
53		Mahima Suryawanshi	Questions related to Paper IV - Returned

Govt. Madhav Science P.G. College, Ujjain (M.P.)

Department of Zoology

M.Sc. IV Sem. CCE 2017-18

Paper I

Animal Behaviour and Neurophysiology

- **Dr. Seema Trivedi and Dr. Anil Pandey**

Mode: Assignment and Presentation

S.No.	Roll No.	Name of Student	Topic
1	16143977	Aditi Panchal	Hormonal control of behaviour
2	16143980	Deepika Solanki	Motivation and Aggregation
3	16143981	Harsha Marmat	Social Behaviour
4	16143985	Leena Shukla	Perception of the Environment : Mechanical, visual and olfactory
5	16143988	Monika Parmar	Classification of Behavioural pattern
6	16143989	Neelam Tomar	Communication : Chemical, visual, light and audition of language
7	16143990	Nirmala Parmar	Biolumniscence
8	16143992	Prernan Shrivastav	What is Ecology ? Preparation of Ethogram.
9	16143993	Priyanka Sharma	Biological Rhyming
10	16143994	Rajun Garwal	Neural control of behaviour
11	16143995	Shraddha Mehar	Ethology, classification of behavioural pattern
12	16143996	Srashthi Jain	Neural and hormonal control of behaviour
13	16143997	Tabassum Mansuri	Thermoregulation in Haemotherms and Poikotherms

Govt. Madhav Science P.G. College, Ujjain (M.P.)

Department of Zoology

M.Sc. IV Sem. CCE 2018-19

Paper I

Animal Behaviour and Neurophysiology

- **Dr. Seema Trivedi and Dr. Anil Pandey**

Mode: Assignment and Presentation

S.No.	Roll No.	Name of Student	Topic
1	17131352	Ajay Dhanak	Inheritance behaviour and relationship
2	17131353	Alka Sharma	Migrations of turtles, birds and fishes
3	17131354	Anil Parmar	Reflex and complex behaviour
4	17109622	Anita Mikati	Group selection, kin selection
5	17131355	Antimbala Sharma	Bioluminiscence
6		Babita Patidar	Physiology of vision and comparative study of photoreceptor
7		Bahadur Singh Parmar	Social organization in primates
8	17131358	Devshree Chandrawat	Evolution of language (Primates)
9		Divya Goswami	Alturism, reciprocal alturism
10	17131361	Harsha Suryawanshi	Genetic and Environmental components and developmental behaviour
11	17131362	Hemlata Saurashtriya	Chemical, visual light communication
12	17131365	Kailash Nandeda	Photoreceptor
13	17131366	Kalpana Kumari Patidar	Photoreceptor
14	17131367	Kavita Chouhan	Social organization in insects
15	17131368	Ku. Saloni Baranya	Animal Physiology
16	17131369	Manisha Sinha	Phonoreceptor
17	17131370	Manju Panwar	Aggregations
18	17131372	Monika Kuril	Circadian and circannual rhythms
19	17131372	Narsingh	Orientation and Navigation
20	17131373	Nena Rathore	Thermoregulation
21	17131374	Pooja Malviya	Biological Rhythms
22	17131375	Priyanka Vishwakarma	Perception of the Environment
23	17131376	Rajkumari Malviya	Learning and memory
24	17131377	Rju Malviya	Ethology as a branch of biology and orientation.
25	17131378	Rukhama Choudhary	Hearding in mammals

26	17131379	Sajan Lal Parmar	Parental care
27	17131381	Savita Rayhore	Thermoregulation - Homeothermic and Poikilothermic
28	17109625	Shiv Kumar Nagar	Poikilothermic
29	17109626	Shivani Gupta	Social organization in primates
30	17109627	Vaishali Bali	Chemoreceptor
31	17131383	Vinita Kumari Patel	Homing Territoriality - most parasite relationship
32	17109628	Vinod Gehlot	Homeothermic
33	17131384	Zuber Khan	Learning and reasoning
34	17109624	Monika Raikwar	Classification of behaviour pattern

Govt. Madhav Science P.G. College, Ujjain (M.P.)

Department of Zoology

M.Sc. II Sem. CCE 2019-20

Paper II

Population Ecology and Environmental Physiology

- **Dr. Anil Pandey and Dr. Seema Trivedi**

Mode: Assignment and Presentation

S.No.	Roll No.	Name of Student	Topic
1	19195330	Anil Bamniya	Demography
2	19195331	Atul Singh Rajput	Population Regulation
3	19195332	Ayushi Bhawsar	Ecophysiological adaptation - Fresh water - Environment
4	19195333	Balveer	Ecophysiological adaptation - Marine wate - Environment
5	19195334	Bhawana Chauhan	Ecophysiological adaptation - Terrestrial - Environment
6	19195335	Bhavana Bhimavad	Limiting factor
7	19195336	Darshana	Inter and Intraspecific relationship
8	19195337	Devkala	Predator prey relationship
9	19195338	Dilshad Mev	Population growth
10	19195339	Divya Patidar	Population and their characters
11	19195340	Garima Aacharya	Conservation management - natural resources
12	19195341	Gulnaz Khan	Sustainable development
13	19195342	Harshita Jain	Endothermy
14	19195343	Jaya Pandey	Physiological response to body exercise
15	19195344	Jayshri Sharma	Physiological response to oxygen deficient stress
16	19195345	Johar Banu	Demography
17	19195346	Jyoti Sharma	Population characteristics
18	19195347	Krihsna Sharma	Population regulation
19	19195348	Kiran Waskel	Population and their characters
20	19195349	Komal Maheshwari	Limit factor
21	19195350	Kusum Bhilala	Life table, generation time and reproductive value
22	19195351	Laxmi Mori	Growth of organism with non-overlapping generation
23	19195352	Madhu Patidar	Time lag model of population grwoth
24	19195353	Manali Bhawsar	Stable age distribution
25	19195354	Mayank Parihar	Adaptation level of adaptation and

			significanc of body size.
26	19195355	Mohammad Shafiq	Extrinsic machanism of population growth
27	19195356	Mohini Sharma	Mediation, yoga and their benefits
28	19195357	Monika Patidar	Intrinsic mechanism of population growth
29	19195358	Monika Yadav	Aquatic Environment - Fresh water
30	19195359	Nidhi Umath	Aquatic Environment - Marine environment
31	19195360	Payal Rathore	Aquatic Environment - Shore and Estuarine
32	19195361	Poonam Binjhade	Predator Dynamics
33	19195362	Priyanka Dwivedi	Concept of Homeostasis
34	19195363	Priyanka Rathore	Optimal foraging theory
35	19195364	Priyanka Tailor	Prey selectivity
36	19195365	Rahul Chawalkar	Meditation
37	19195366	Rajni Malviya	Mutualism plant pollination interaction
38	19195367	Ravina Chaudhari	Yoga and their effecs
39	19195368	Reetu Patidar	Adaptation
40	19195369	Rishita Jain	Adaptation - Freshwater adaptation
41	19195370	Rohit Kumar	Adaptation - Marine adaptation
42	19195371	Roshanee Vasuniya	Adaptation - Terrestrial adaptation
43	19195372	Sadhana Mandloi	Demography
44	19195373	Sanjay Panchal	Life table
45	19195374	Shruti Sharma	Adaptation
46	19195375	Sweta Alawa	Generation time
47	19195376	Sohan Sonvaniya	Population and their characters
48	19195377	Sonam Saurashtry	Level of adaptation
49	19195378	Sujata Soni	Adaptation - Level of adaptation - signfication of body
50	19195379	Uma Gothi	Environment Impact assessment
51	19195387	Vipul Dwivedi	Time log model of population grwoth
52	18180371	Azher Qureshi	Demography
53		Mahima Suryawanshi	Adaptation - Level of adaptation - signfication of body

Govt. Madhav Science P.G. College, Ujjain (M.P.)

Department of Zoology

M.Sc. II Sem. CCE 2018-19

Paper I

General and Comparative Animal Physiology and Endocrinology

- Dr. Shehla Ishaque and Dr. Rekha Khanna

Mode: Assignment and Presentation

S.No.	Roll No.	Name of Student	Topic
1	18180331	Aayushi Gosar	Chromatophores
2	18180332	Abhilasha Masaniya	Patterns of nitrogen excretion in different animals
3	18180333	Amit Vyas	Comparative study of Equilibrium receptors
4	18180334	Ankita Davda	Chromatophores and regulation of their functions
5	18180336	Aruna Jawariya	Patterns of nitrogen excretion in different animals
6	18180337	Hukum Singh Rathod	Gen and comparative animals physo of chemoreceptors
7	18180338	Jayant Singh Chouhan	Photoreceptors
8	18180339	Jayshree Patidar	Patterns of nitrogen excretion in different animals
9	18180340	Jitendra Rajoria	Comparative study of chemoreceptors
10	18180343	Karan Parmar	Hormones, their classification and chemical nature
11	18180344	Kavita Dangi	General and comparative animal physiology and endocrinology
12	18180345	Khushboo Padihar	Photoreceptors
13	18180346	Kirti Bihaniya	Regulation of respiration
14	18180352	Neha Choudhary	Respiratory pigments
15	18180354	Pooja Sisodiya	Patterns of nitrogen excretion in animal groups
16	18180356	Ravindra Malviya	Photoreceptors
17	18180357	Rekha Gundiya	Mechanism of hormone a tion
18	18180358	Shahnawaz Khan	Nitrogen excetion in different animal groups
19	18180359	Shayana Khan	Osmoregulation in different animals
20	18180360	Shivani Rami	Mechanoreception
21	18180361	Shweta Choudhary	Physiology of Nerve impulse
22	18180362	Usha Bhuriya	Physiology of impulse transmission through nerves and synapses
23	18180371	Azher Qureshi	Respiratory pigments in phylogene groups
24	18180372	Kavita Sharma	Regulation of respiration
25	18180371	Reetu Bhawsar	Comparative physiology of digestion
26	17109628	Vinod Gehlot	Photoreceptors

Govt. Madhav Science P.G. College, Ujjain (M.P.)

Department of Zoology

M.Sc. II Sem. CCE 2017-18

Paper I

General and Comparative Animal Physiology and Endocrinology

- Dr. Shehla Ishaque and Dr. Rekha Khanna

Mode: Assignment and Presentation

S.No.	Roll No.	Name of Student	Topic
1	17131352	Ajay Dhanak	Autonomic nervous system
2	17131353	Alka Sharma	Hormones and their classification
3	17131354	Anil Parmar	Photoreceptors
4	17109622	Anita Mikati	Physiology of digestion
5	17131355	Antimbala Sharma	Mechanism of Hormone action
6		Babita Patidar	Bioluminiscence
7		Bahadur Singh Parmar	Chromatophone
8	17131358	Devshree Chandrawat	Mechanoreceptors
9		Divya Goswami	Hormone receptors and signal transduction mechanism
10	17131361	Hemlata Sauryawanshi	Phylogeny of endocrine glands (Thyroid gland)
11	17131362	Hemlata Saurashtriya	Chromatophones
12	17131365	Kailash Nandeda	Osmoregulation
13	17131366	Kalpana KumariPatidar	Pheromones as means of communication among animals
14	17131367	Kavita Chouhan	Osmoregulation in different animal groups
15	17131368	Ku. Saloni Baranya	Physiology of digestion
16	17131369	Manisha Sinha	Osmoregulation in different animal groups
17	17131370	Manju Panwar	Mechanism of Hormone action
18	17131372	Monika Kuril	Chromatophones and regulation of their functions
19	17131372	Narsingh Tanwar	Mehanoreceptors
20	17131373	Neha Rathore	Respiratory prigments through different phylogenic groups
21	17131374	Pooja	Bioluminiscence
22	17131375	Priyanka Vishwakarma	Phylogeny of endocrine glands (Thyroid gland)
23	17131376	Rajkumari Malviya	Bioluminiscence
24	17131377	Raju Malviya	Phylogeny of endocrine glands (Thyroid

			gland)
25	17131378	Rukhama Choudhary	Thermoregulation in Homeotherms, Parkilotherms
26	17131379	Sajan lal Parmar	Bioluminiscence
27	17131381	Savita Rathore	Transport of O2 and CO2 in blood and body fluids
28	17109625	Shiv Kumar Nagar	Comparative study of phenoreceptors
29	17109626	Shivani Gupta	Bioluminiscence as a means of communication among animals
30	17109627	Vaishali Bali	Respiration
31	17131383	Vinita Kumari Patel	Hormone their classification and chemical nature
32	17109628	Vinod Gehlot	Transport of O2 and CO2 in blood and body fluids
33	17131384	Zuber Khan	Kidney regulation
34	17109624	Monika Raikwar	Thermoregulation

Govt. Madhav Science P.G. College, Ujjain (M.P.)

Department of Zoology

M.Sc. I Sem. CCE 2019-20

Paper III

Quantitative Biology, Biodiversity and Wild Life

- Dr. Anil Pandey and Dr. Seema Trivedi

Mode: Assignment and Presentation

S.No.	Roll No.	Name of Student	Topic
1	19195330	Anil Bamniya	Ten questions to each student
2	19195331	Atul Singh Rajput	Ten questions to each student
3	19195332	Ayushi Bhawsar	Ten questions to each student
4	19195333	Balveer	Ten questions to each student
5	19195334	Bhawana Chauhan	Ten questions to each student
6	19195335	Bhawana Bhimavad	Ten questions to each student
7	19195336	Darshana	Ten questions to each student
8	19195337	Devkala	Ten questions to each student
9	19195338	Dilshad Mev	Ten questions to each student
10	19195339	Divya Patidar	Ten questions to each student
11	19195340	Garima Aacharya	Ten questions to each student
12	19195341	Gulnaz Khan	Ten questions to each student
13	19195342	Harshita Jain	Ten questions to each student
14	19195343	Jayaa Pandey	Ten questions to each student
15	19195344	Jayshri Sharma	Ten questions to each student
16	19195345	Johar banu	Ten questions to each student
17	19195346	Jyoti Sharma	Ten questions to each student
18	19195347	Krishna Sharma	Ten questions to each student
19	19195348	Kiran Waskel	Ten questions to each student
20	19195349	Koma Maheshwari	Ten questions to each student
21	19195350	Kusum Bhilala	Ten questions to each student
22	19195351	Laxmi Mori	Ten questions to each student
23	19195352	Madhu Patidar	Ten questions to each student
24	19195353	Manali Bhaswar	Ten questions to each student
25	19195354	Mayank Parihar	Ten questions to each student
26	19195355	Mohammad Shafiq	Ten questions to each student
27	19195356	Moihni Sharma	Ten questions to each student
28	19195357	Monika Patidar	Ten questions to each student
29	19195358	Monika Yadav	Ten questions to each student
30	19195359	Nidhi Umath	Ten questions to each student
31	19195360	Payal Rathore	Ten questions to each student
32	19195361	Poonam Binjhade	Ten questions to each student

33	19195362	Priyanka Dwivedi	Ten questions to each student
34	19195363	Ku. Priyanka Rathore	Ten questions to each student
35	19195364	Priyanka Tailor	Ten questions to each student
36	19195365	Rahul Chawalikar	Ten questions to each student
37	19195366	Rajni Malviya	Ten questions to each student
38	19195367	Ravina Chaudhari	Ten questions to each student
39	19195368	Reetu Patidar	Ten questions to each student
40	19195369	Rishita Jain	Ten questions to each student
41	19195370	Rohit Kumar	Ten questions to each student
42	19195371	Roshanee Vasuniya	Ten questions to each student
43	19195372	Sadhana Mandloi	Ten questions to each student
44	19195373	Sanjay Panchal	Ten questions to each student
45	19195374	Shruti Sharma	Ten questions to each student
46	19195375	Sweta Alawa	Ten questions to each student
47	19195376	Sohan Sonvaniya	Ten questions to each student
48	19195377	Sonam Saurashtry	Ten questions to each student
49	19195378	Sujata Soni	Ten questions to each student
50	19195379	Uma Gothi	Ten questions to each student
51	19195387	Vipul Dwivedi	Ten questions to each student
52	18180371	Azher Qureshi	Ten questions to each student
53		Mahima Suryawanshi	Ten questions to each student

Govt. Madhav Science P.G. College, Ujjain (M.P.)

Department of Zoology

M.Sc. III Sem. CCE 2019-20

Paper I

Comparative Anatomy of Vertebrates

- **Dr. Seema Trivedi and Dr. Shailja Acharya**

Mode: Assignment and Presentation

S.No.	Roll No.	Name of Student	Topic
1	18180331	Aayushi Gohar	Ten questions to each student
2	18180332	Abhilasha Masaniya	Ten questions to each student
3	18180333	Amit Vyas	Ten questions to each student
4	18180334	Ankita Devda	Ten questions to each student
5	18180336	Aruna Jawariya	Ten questions to each student
6	18180338	Jayant	Ten questions to each student
7	18180339	Jayshree Patidar	Ten questions to each student
8	18180340	Jitendra	Ten questions to each student
9	18180343	Karan Parmar	Ten questions to each student
10	18180344	Kavita Dangi	Ten questions to each student
11	18180345	Khushboo Padihar	Ten questions to each student
12	18180346	Kirti Bihaniya	Ten questions to each student
13	18180352	Neha Choudhary	Ten questions to each student
14	18180354	Pooja Sisodiya	Ten questions to each student
15	18180358	Shahnawaz Khan	Ten questions to each student
16	18180359	Shayana Khan	Ten questions to each student
17	18180360	Shivani Rami	Ten questions to each student
18	18180361	Sweta Choudhary	Ten questions to each student
19	18180362	Usha Bhuriya	Ten questions to each student
20	18180371	Azhar Qureshi	Ten questions to each student
21	18180372	Kavita Sharma	Ten questions to each student
22	18180374	Reetu Bhawsar	Ten questions to each student

Govt. Madhav Science P.G. College, Ujjain (M.P.)

Department of Zoology

M.Sc. III Sem. CCE 2017-18

Paper I

Comparative Anatomy of Vertebrates

- **Dr. Seema Trivedi and Dr. Shailja Acharya**

Mode: Assignment and Presentation

S.No.	Roll No.	Name of Student	Topic
1	16143977	Aditi Panchal	Comparative account of Jaw suspension
2	16143980	Deepika Solanki	Comparative account of Electroreception
3	16143981	Harsha Marmat	General organization of cyclostomes
4	16143985	Leena Shukla	Flight adaptation in vertebrates
5	16143988	Monika Parmar	Origin evolution general organization affinity of ostraderum
6	16143989	Neelam Tomar	Comparative account of Jaw suspension and vertebral column
7	16143990	Nirmala Parmar	Aquatic adaptation in birds and mammals
8	16143992	Prerna Shrivastav	General account of Elasmobranchii, Holocephalii
9	16143993	Priyanka Sharma	General account of Elasmobranchii and Holocephalii
10	16143994	Rajun Garwal	Comparative anatomy of Evolution of Aortic arches
11	16143995	Shraddha Mehar	Comparative account of lateral line system
12	16143996	Srashthi Jain	Blood circulation in vertebrates
13	16143997	Tabassum Mansuri	Evolution of heart
		Urmila Chouhan	Flight adaptation in vertebrates
		Rajendra Vaskel	Orgin of chordata

Govt. Madhav Science P.G. College, Ujjain (M.P.)

Department of Zoology

M.Sc. III Sem. CCE 2018-19

Paper I

Comparative Anatomy of Vertebrates

- **Dr. Seema Trivedi and Dr. Shailja Acharya**

Mode: Assignment and Presentation

S.No.	Roll No.	Name of Student	Topic
1	17131352	Ajay Dhanak	Electroreception in vertebrates
2	17131353	Alka Sharma	Evolution of urinogenetal system of vertebrates
3	17131354	Anil Parmar	Flasmobreach, Anlocephali, Dipnoi-General account
4	17109622	Anita Mikati	Electroreception
5	17131355	Antimbala Sharma	Origin of chordata and concept of protochordata
6		Babita Patidar	Blood circulation in various vertebrates
7		Bahadur Singh Parmar	Skin (Intequment) and its derivatives
8	17131358	Devshree Chandrawat	Origin and evolution of ostracolera
9		Divya Goswami	Blood circulation in vertebrate group
10	17131361	Harsha Suryawanshi	Comparative anatomy of brain and spinal cord
11	17131362	Hemlata Saurashtriya	Comparative anatomy of brain and spinal cord
12	17131365	Kailash Nandeda	Flight adaptation in birds
13	17131366	Kalpana Kumari Patidar	Aquatic adaptation in birds and mammals
14	17131367	Kavita Chouhan	Evolution of heart
15	17131368	Ku. Saloni Baranya	Respiration physiology
16	17131369	Manisha Sinha	Peripheral and autonomous nervous system
17	17131370	Manju Panwar	Comparative account on jaw suspension and vertebral column
18	17131372	Monika Kuril	Comparative account of lateral line system
19	17131372	Narsingh	Aortic arches
20	17131373	Nena Rathore	Evolution of heart
21	17131374	Pooja Malviya	Integument and their derivatives
22	17131375	Priyanka	Respiratory system in vertebrates

		Vishwakarma	
23	17131376	Rajkumari Malviya	Comparative account of respiratory system
24	17131377	Rju Malviya	Comparative account of digestive system in vertebrates
25	17131378	Rukhama Choudhary	Evolution of Aortic arches
26	17131379	Sajan Lal Parmar	Respiratory system in vertebrates
27	17131381	Savita Rayhore	Digestive system of vertebrates (comparative)
28	17109625	Shiv Kumar Nagar	Lateral line system in vertebrates
29	17109626	Shivani Gupta	Aquatic adaptation
30	17109627	Vaishali Bali	General organization, species characters of cyclostomes
31	17131383	Vinita Kumari Patel	Flight adaptation
32	17109628	Vinod Gehlot	
33	17131384	Zuber Khan	Comparative account of olfactory organ
34	17109624	Monika Raikwar	Respiratory system of vertebrates

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Department of Zoology

M.Sc. III Sem. CCE 2018-19

Paper II

Limnology

- **Dr. Anil Pandey and Dr. Rekha Khanna**

Mode: Assignment and Presentation

S.No.	Roll No.	Name of Student	Topic
1	16143979	Ashish Sisodiya	Questions given related to syllabus and assignment returned to the students
2	17109624	Monika Raikwar	Questions given related to syllabus and assignment returned to the students
3	17109626	Shivani Gupta	Questions given related to syllabus and assignment returned to the students
4	17109627	Vaishali Bali	Questions given related to syllabus and assignment returned to the students
5	17131352	Ajay Dhanak	Questions given related to syllabus and assignment returned to the students
6	17131353	Alka Sharma	Questions given related to syllabus and assignment returned to the students
7	17131354	Anil Parmar	Questions given related to syllabus and assignment returned to the students
8	17131355	Antimbala Shah	Questions given related to syllabus and assignment returned to the students
9	17131356	Babita Paidar	Questions given related to syllabus and assignment returned to the students
10	17131357	Bahadur Singh	Questions given related to syllabus and assignment returned to the students
11	17131358	Devshree Chandel	Questions given related to syllabus and assignment returned to the students
12	17131359	Divya Goswami	Questions given related to syllabus and assignment returned to the students
13	17131361	Harsha Suryavanshi	Questions given related to syllabus and assignment returned to the students
14	17131362	Hemlata Sourashtriya	Questions given related to syllabus and assignment returned to the students
15	17131365	Kailash Nandeda	Questions given related to syllabus and assignment returned to the students
16	17131366	Kalpana Kumari Patidar	Questions given related to syllabus and assignment returned to the students
17	17131367	Kavita Chouhan	Questions given related to syllabus and

			assignment returned to the students
18	17131369	Manisha Sinha	Questions given related to syllabus and assignment returned to the students
19	17131370	Manju Panwar	Questions given related to syllabus and assignment returned to the students
20	17131371	Monika Kuril	Questions given related to syllabus and assignment returned to the students

Govt. Madhav Science P.G. College, Ujjain (M.P.)

Department of Zoology

M.Sc. III Sem. CCE 2016-17

Paper III

Ecotoxicology

- Dr. S. Sonche and Dr. S. Ishaque

Mode: Assignment and Presentation

S.No.	Roll No.	Name of Student	Topic
1	14145343	Anita Ningwal	Concept of Ecosystem
2	14145347	Madanlal Solanki	Remote Sensing - Basic Concept and Application
3	14145358	Sharmila Mourya	Abiotic and Biotic Factors
4	15145594	Bablee Sisodiya	Environmental Pollution
5	15145595	Bhojraj Gujer	Important Heavy Minerals
6	15145596	Dilip Kumar Saurashtriya	Environmental Pollution and their control
7	15145598	Harsha Rajput	Remote Sensing - Basic Concept and Application
8	15145600	Jaynarayan Gurjar	Basic concept of Toxicology
9	15145601	Laxmi Vaghela	Occupation Health Hazard
10	15145602	Manisha	Noise Pollution
11	15145605	Neelam Gohil	Pesticides and their effects
12	15145606	Pintu Nagar	Public Health Hazards
13	15145608	Priya Devatwal	Concept of Ecosystem
14	15145609	Puja Pandya	Kinds of Environmental Pollution and their control
15	15145611	Rakesh Sihanam	Energy Flow in Environment
16	15145612	Ram Bharose	Vehicular Exhaust Pollution
17	15145615	Ritu Parmar	Toxicology, Basic Concepts, Principles and Various Agents
18	15145616	Shubham Rathore	Energy Flow in Ecosystem
19	15145617	Uma Dangi	Abiotic and Biotic Factors
20	15145618	Urmila Chouhan	Noise Pollution / Abiotic and Biotic
21	15145619	Vikram Panwar	Concepts of Ecosystem

Govt. Madhav Science P.G. College, Ujjain (M.P.)

Department of Zoology

M.Sc. III Sem. CCE 2018-19

Paper III

Ecotoxicology

- Dr. S. Sonche and Dr. S. Ishaque

Mode: Assignment and Presentation

S.No.	Roll No.	Name of Student	Topic
1	16143979	Ashish Sisodiya	Abiotic and Biotic Factors
2	17109624	Monika Raikwar	Food toxicant and their control methods, heavy metal toxicity
3	17109626	Shivani Gupta	Productivity Production and Analysis
4	17109627	Vaishali Bali	Basic concept of Ecosystem
5	17131352	Ajay Dhanak	Public health hazards due to environmental disasters
6	17131353	Alka Sharma	Basic concepts, principles and various types of toxic agents
7	17131354	Anil Parmar	Vehicular exhaust pollution, causes and remedies
8	17131355	Antimbala Shah	Abiotic and biotic factors of Ecosystem
9	17131356	Babita Paidar	Occupational Health Hazards
10	17131357	Bahadur Singh	Abiotic and Biotic Factors of Ecosystem
11	17131358	Devshree Chandel	Remote Sensing
12	17131359	Divya Goswami	Kinds of Environmental Pollution and their control methods
13	17131361	Harsha Suryavanshi	Important Heavy Metals and their role in Environment
14	17131362	Hemlata Sourashtriya	Toxicology basic concepts and various types of toxicological agents
15	17131365	Kailash Nandeda	Toxicology basic concept
16	17131366	Kalpana Kumari Patidar	Public health hazards due to environmental disasters
17	17131367	Kavita Chouhan	Energy flow in environment
18	17131369	Manisha Sinha	Environmental indicator and their role in Environmental balance
19	17131370	Manju Panwar	Toxicology – basic concepts, principles and various types of toxicological agents
20	17131371	Monika Kuril	Remote Sensing
21	17131373	Neha Rathore	Committees of the environment, their role and significance

22	17131374	Pooja Malviya	Environmental Indicators and their role in Environmental balance
23	17131375	Priyanka Vishwakarma	Radioactive compounds and their impact on Environment
24	17131377	Raju Malviya	Noise Pollution
25	17131378	Rukhama Choudhary	Pesticides and their effects
26	17131379	Sajan Lal Parmar	Fish culture
27	17131380	Saloni Baranya	Vehicular Exhaust Pollution
28	17131381	Savita Rathore	Toxicity testing principle, hazards, risks and control
29	17131383	Vinita Kumari Patel	Food toxicant and their control method
30	17131384	Zuber Khan	Noise pollution

Govt. Madhav Science P.G. College, Ujjain (M.P.)

Department of Zoology

M.Sc. IV Sem. CCE 2018-19

Paper III

Ecotoxicology

- **Dr. S. Souche and Dr. S. Acharya**

Mode: Assignment and Presentation

S.No.	Roll No.	Name of Student	Topic
1	18103331	Aayushi Gosar	Pesticides, types, nature, their effects on environment
2	18180332	Abhilasha Masaniya	Basic concepts, principles and various types of toxicating agents
3	18180333	Amit Vyas	Noise Pollution
4	18180334	Ankita Davda	Basic concepts and application of remote sensing
5	18180336	Aruna Jawariya	Pesticides, types, nature, their effects on environment
6	18180338	Jayant Chouhan	Ecological characteristics of lakes and rivers
7	18180339	Jayshree Patidar	Recycling and reuse technologies for solid and liquid works and their role in environmental conservation
8	18180340	Jitendra Rajoria	Abiotic and biotic factors
9	18180343	Karan Parmar	General principles of environmental biology with emphasis on Ecology
10	18180344	Kavita Dangi	Public health hazards due to environmental disasters
11	18180345	Khushboo Padihar	Occupational health hazards and their control
12	18180346	Kirti Bihaniya	Environmental indicator and their role in environmental balance
13	18180352	Neha Choudhary	Food toxicant
14	1810354	Pooja Sisodiya	Abiotic and biotic factors of ecosystem
15	1810358	Shahnawaz Khan	Toxicant
16	1810359	Shayana Khan	Kinds of environmental pollution and their control methods
17	1810360	Shivani Rami	Food toxicants and their control methods
18	1810361	Shweta Choudhary	Public health hazards due to environmental disasters

19	1810362	Usha Bhuriya	Vehicular exhaust pollution, causes and remedies
20	1810371	Azher Qureshi	Remote sensing
21	1810372	Kavita Sharma	Community of the environment
22	1810374	Reetu Bhawsar	Agrochemical use and misuse alternatives

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Paper IV

Aquaculture

- **Dr. S. Vaidhya and Dr. A.A. Siddiqui**

Mode: Assignment and Presentation

S.No.	Roll No.	Name of Student	Topic
1	16143977	Aditi Panchal	Transport of live fishes
2	16143980	Deepika Solanki	Frog culture
3	16143981	Harsha Marmat	Disease of carp fishes and their control
4	16143985	Leena Shukla	Fish disease and their control
5	16143988	Monika Parmar	Fisheries Economics and marketing
6	16143989	Neelam Tomar	Byproduct of fish industry
7	16143990	Nirmala Parmar	Biochemical composition of fish
8	16143992	Prernan Shrivastav	Ecological characteristics of prawn
9	16143993	Priyanka Sharma	Fisheries Economics and marketing
10	16143994	Rajun Garwal	Paddy fish culture
11	16143995	Shraddha Mehar	Marketing of fishes
12	16143996	Srashthi Jain	Induced breeding
13	16143997	Tabassum Mansuri	Bunch breeding

Govt. Madhav Science P.G. College, Ujjain (M.P.)

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M.Sc. II Sem. CCE 2018-19

Paper II

Population Ecology and Environmental Physiology

- Dr. Anil Pandey and Dr. S. Trivedi

Mode: Assignment and Presentation

S.No.	Roll No.	Name of Student	Topic
1	18180331	Aayushi Gosar	Environmental limiting factors
2	18180332	Abhilasha Masaniya	Adaptations – Levels of Adaptation
3	18180333	Amit Vyas	Ecophysiological adaptation, fresh water environment
4	18180334	Ankita Davda	Conservation management of natural resources
5	18180336	Aruna Jawariya	Sustainable development
6	18180337	Hukum Singh Rathod	Population Ecology and Environmental Physiology
7	18180338	Jayant Singh Chouhan	Predatory Prey Relationship
8	18180339	Jayshree Patidar	Predator dynamics, optimal doraging theory
9	18180340	Jitendra Rajoria	Life tables, generation time, reproductive value
10	18180343	Karan Parmar	Fresh water habitat
11	18180344	Kavita Dangi	Population Ecology and environmental physiology
12	18180345	Khushboo Padihar	Physiological response to oxygen deficient stress
13	18180346	Kirti Bihaniya	Conservation management of natural resources
14	18180352	Neha Choudhary	Environmental pollution and human health
15	18180354	Pooja Sisodiya	Meditation, yoga and their side effects
16	18180356	Ravindra Malviya	Concept of Hemeostasis
17	18180357	Rekha Gundiya	Endothermy
18	18180358	Shahnawaz Khan	Population growth and regulation
19	18180359	Shayana Khan	Physiological response to body exercise
20	18180360	Shivani Rami	Population regulation
21	18180361	Shweta Choudhary	Mutualism, evolution of plant pollinator interaction
22	18180362	Usha Bhuriya	Ecophysiological adaptation to terrestrial environments
23	18180371	Azher Qureshi	Population Growth Patterns
24	18180372	Kavita Sharma	Meditation, yoga and their effects
25	18180371	Reetu Bhawsar	Physiological response to early exercise.

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Department of Zoology

M.Sc. II Sem. CCE 2017-18

Paper III

Tools and Techniques

- **Dr. R. Khanna and Dr. S. Vaidhya**

Mode: Assignment and Presentation

S.No.	Roll No.	Name of Student	Topic
1	17131352	Ajay Dhanak	Light microscopy
2	17131353	Alka Sharma	Southern blotting
3	17131354	Anil Parmar	Electrone microscopy
4	17109622	Anita Mikati	Confocal microscopy
5	17131355	Antimbala Sharma	Column chromatography
6		Babita Patidar	Microtome
7		Bahadur Singh Parmar	Freeze drying
8	17131358	Devshree Chandrawat	Microbial identification
9		Divya Goswami	Microbial identification
10	17131361	Harsha Suryawanshi	Principle and application of light microscope
11	17131362	Hemlata Saurashtriya	Microbial identification
12	17131365	Kailash Nandeda	Light microscope
13	17131366	Kalpana Kumari Patidar	Preparation of culture media
14	17131367	Kavita Chouhan	Microbial identification
15	17131368	Ku. Saloni Baranya	Histochemical demonstration
16	17131369	Manisha Sinha	Chromosomal bonding techniques
17	17131370	Manju Panwar	Autoradiography
18	17131372	Monika Kuril	Freeze drying technique
19	17131372	Narsingh	Phase contrast microscope
20	17131373	Neha Rathore	Electrophoresis
21	17131374	Pooja Malviya	Northern blotting
22	17131375	Priyanka Vishwakarma	Inoculation
23	17131376	Rajkumari Malviya	Cryo preserving
24	17131377	Raju Malviya	Immuno diffusion
25	17131378	Rukhama Choudhary	Phase contrast microscope
26	17131379	Sajan Lal Parmar	Methods of sterilization
27	17131381	Savita Rayhore	Microbial identification

28	17109625	Shiv Kumar Nagar	Histochemistry
29	17109626	Shivani Gupta	Cryo preservation
30	17109627	Vaishali Bali	Radioisotopes
31	17131383	Vinita Kumari Patel	Chromosomal bonding technique
32	17109628	Vinod Gehlot	Histochemistry
33	17131384	Zuber Khan	Process of staining
34	17109624	Monika Raikwar	Northern hybridization

Govt. Madhav Science P.G. College, Ujjain (M.P.)

M.Sc. (Second Semester) 2018-19

ZOOLOGY

Paper : IV

Molecular Biology and Genetics

C.C.E. – IV Paper **M.M. 10**

- Dr. S. Souche and Dr. S. Acharya

Write answer of the following questions :

1. Write functions of biomembrane.
2. Describe uniport, symport, antiport.
3. What is cell – cell signaling ?
4. What is a Gap function ?
5. Write a note on Gene therapy.
6. Full form of SCID.
7. What is Genome ?
8. Gene counseling.
9. Note on Pre-natal diagnosis.
10. Non-coding DNA.
11. What are transgenic animals ?
12. Detailed note on cytogenetic of human chromosomes.
13. Active and passive transport.
14. Dosage compensation theory of sex determination.
15. Short note on second messenger system.

Govt. Madhav Science P.G. College, Ujjain (M.P.)

Department of Zoology

M.Sc. I Sem. CCE 2017-18

Paper I

Biosystematics, Taxonomy and Evolution

- **Dr. S. Acharya and Dr. S. Vaidhya**

Mode: Assignment and Presentation

S.No.	Roll No.	Name of Student	Topic
1	17131352	Ajay Dhanak	Taxonomic categories
2	17131353	Alka Sharma	Species concept
3	17131354	Anil Parmar	Dominance index
4	17109622	Anita Mikati	Speciation
5	17131355	Antimbala Sharma	Genetic polymorphism
6		Babita Patidar	Shanon Weiner Law
7		Bahadur Singh Parmar	Taxonomic collection
8	17131358	Devshree Chandrawat	Genetic Drift
9		Divya Goswami	Molecular taxonomy
10	17131361	Harsha Suryawanshi	Taxonomic key
11	17131362	Hemlata Saurashtriya	Subspecies
12	17131365	Kailash Nandeda	Theories of Evolution
13	17131366	Kalpana Kumari Patidar	Theories of Evolution
14	17131367	Kavita Chouhan	History of Classification
15	17131368	Ku. Saloni Baranya	Mutation
16	17131369	Manisha Sinha	Meiotic drive
17	17131370	Manju Panwar	Natural selection
18	17131372	Monika Kuril	Genetic drift
19	17131372	Narsingh	Speciation
20	17131373	Neha Rathore	Micro evolution
21	17131374	Pooja Malviya	Intraspecific categories
22	17131375	Priyanka Vishwakarma	Species concept
23	17131376	Rajkumari Malviya	Hierarchy of categories
24	17131377	Raju Malviya	Nomenclature
25	17131378	Rukhama Choudhary	Chemotaxonomy
26	17131379	Sajan Lal Parmar	Concept of Biosystematics
27	17131381	Savita Rayhore	Taxonomic characters
28	17109625	Shiv Kumar Nagar	Population genetics

29	17109626	Shivani Gupta	Genetic Drift
30	17109627	Vaishali Bali	Hardy Weiner Law
31	17131383	Vinita Kumari Patel	Taxonomic categories
32	17109628	Vinod Gehlot	Theories of biological classification
33	17131384	Zuber Khan	Classification
34	17109624	Monika Raikwar	History of Taxonomy

Govt. Madhav Science P.G. College, Ujjain (M.P.)

Department of Zoology

M.Sc. I Sem. CCE 2019-20

Paper I

Biosystematics, Taxonomy and Evolution

- **Dr. S. Acharya and Dr. S. Vaidhya**

Mode: Assignment and Presentation

S.No.	Roll No.	Name of Student	Topic
1	19195330	Anil Bamniya	Taxonomic categories
2	19195331	Atul Singh Rajput	Theories of biological classification
3	19195332	Ayushi Bhawsar	Taxonomic hierarchy and macro and micro evolution
4	19195333	Balveer	Hierarchy categories – reproductive isolation
5	19195334	Bhawana Chauhan	Taxonomic collection and nomenclature
6	19195335	Bhavana Bhimavad	Speciation, Hierarchy of classification
7	19195336	Darshana	Taxonomic categories of taxonomy
8	19195337	Devkala	Moleculr taxonomy
9	19195338	Dilshad Mev	Cytotaxonomy
10	19195339	Divya Patidar	Concept of Biostatistics and Taxonomic characteristics
11	19195340	Garima Aacharya	History of classification
12	19195341	Gulnaz Khan	Nomenclature and history of classification
13	19195342	Harshita Jain	Theories of classification
14	19195343	Jaya Pandey	Micro-macro evolution
15	19195344	Jayshri Sharma	Speciation
16	19195345	Johar Banu	Theories of classification and taxonomic characteristics
17	19195346	Jyoti Sharma	Molecular taxonomy
18	19195347	Krishna Sharma	Macro evolution and nomenclature
19	19195348	Kiran Waskel	Chemotaxonomy and history of classification
20	19195349	Komal Maheshwari	Molecular taxonomy and mass evolution
21	19195350	Kusum Bhilala	History of classification and Taxonomic collection
22	19195351	Laxmi Mori	Chemotaxonomy cytotaxonomy
23	19195352	Madhu Patidar	Biosystematics, taxonomy and evolution
24	19195353	Manali Bhawsar	Chemotaxonomy Cytotaxonomy
25	19195354	Mayank Parihar	Chemotaxonomy and collection
26	19195355	Mohammad Shafiq	Zoology nomenclature and Hierarchy

			Taxonomy
27	19195356	Mohini Sharma	Cytotaxonomy and collection
28	19195357	Monika Patidar	Speciation and hierarchy of categories
29	19195358	Monika Yadav	Biological classification – Reproductive Isolation
30	19195359	Nidhi Umath	Chemotaxonomy and history of classification
31	19195360	Payal Rathore	History of classification
32	19195361	Poonam Binjhade	Molecular Taxonomy and Nomenclature
33	19195362	Priyanka Dwivedi	History of Taxonomy
34	19195363	Priyanka Rathore	History of classification
35	19195364	Priyanka Tailor	Nomenclature and Reproductive Isolation
36	19195365	Rahul Chawalkar	Micro Evolution
37	19195366	Rajni Malviya	Hierarchy of categories – Micro evolution
38	19195367	Ravina Chaudhari	Speciation
39	19195368	Reetu Patidar	Molecular Taxonomy and Taxonomic Key
40	19195369	Rishita Jain	Molecular Taxonomy and Preservation
41	19195370	Rohit Kumar	Chemo Taxonomy and Reproductive Isolation
42	19195371	Roshanee Vasuniya	Taxonomic collection
43	19195372	Sadhana Mandloi	History of classification and reproductive isolation
44	19195373	Sanjay Panchal	Cytotaxonomy
45	19195374	Shruti Sharma	Molecular Taxonomy
46	19195375	Sweta Alawa	Cytotaxonomy and Taxonomic Key
47	19195376	Sohan Sonvaniya	Chemotaxonomy and Taxonomic characters
48	19195377	Sonam Saurashtry	Theories of classification
49	19195378	Sujata Soni	Origin of species
50	19195379	Uma Gothi	Zoological nomenclature and Hierarchy of species
51	19195387	Vipul Dwivedi	Nomenclature
52		Mahima Suryawanshi	Taxonomic key and speciation
53	18180371	Azher Qureshi	Origin of species

Govt. Madhav Science P.G. College, Ujjain (M.P.)

M.Sc. (First Semester) 2018-19

ZOOLOGY

Paper : II

Structure and Function of Invertebrates

C.C.E. – I Paper **M.M. 10**

- Dr. S. Souche and Dr. A. A. Siddiqui

1. Organization of coelom.
2. What are acoelomate animals ?
3. Hydrostatic movement in coelentorata.
4. Origin of Metazoa.
5. Patterns of feeding.
6. Respiratory pigment (short note).
7. Organs of respiration in invertebrates.
8. Short notes on Flame cells, Green Gland.
9. Excretion in annelida.
10. Osmoregulation in invertebrates.
11. Primitive nervous system in coelentorata.
12. Advanced nervous system in crustacea.
13. Pila nervous system (Mollusca)
14. Short notes on Rotifera, Phoronida.
15. Larval forms of trematoda.
16. Larval forms of mollusca.

Govt. Madhav Science P.G. College, Ujjain (M.P.)

Department of Zoology

M.Sc. II Sem. CCE 2019-20

Paper III

Tools and Techniques

- **Dr. R. Khanna and Dr. S. Vaidhya**

Mode: Assignment and Presentation

S.No.	Roll No.	Name of Student	Topic
1	19195330	Anil Bamniya	TLC
2	19195331	Atul Singh Rajput	Electrophoresis
3	19195332	Ayushi Bhawsar	Microscopy
4	19195333	Balveer	Chromatography
5	19195334	Bhawana Chauhan	Microtomy
6	19195335	Bhavana Bhimavad	Auto radiography
7	19195336	Darshana	Paper electrophoresis
8	19195337	Devkala	Gel Electrophoresis
9	19195338	Dilshad Mev	Spectrophotometre
10	19195339	Divya Patidar	Thin layer chromatography
11	19195340	Garima Aacharya	Flame photometre
12	19195341	Gulnaz Khan	Light microscopy
13	19195342	Harshita Jain	Microscopy
14	19195343	Jaya Pandey	PCR
15	19195344	Jayshri Sharma	Theories of biological classification
16	19195345	Johar Banu	Gel Electrophoresis
17	19195346	Jyoti Sharma	Flame photometre
18	19195347	Krishna Sharma	Flame photometre
19	19195348	Kiran Waskel	Principles of light microscope
20	19195349	Komal Maheshwari	Light microscopy
21	19195350	Kusum Bhilala	Gel Electrophoresis
22	19195351	Laxmi Mori	Flame photometre
23	19195352	Madhu Patidar	Electrophoresis
24	19195353	Manali Bhawsar	Chromatography
25	19195354	Mayank Parihar	Gel Electrophoresis
26	19195355	Mohammad Shafiq	Flame photometre
27	19195356	Mohini Sharma	Microtomy
28	19195357	Monika Patidar	Microtomy
29	19195358	Monika Yadav	Chromatography
30	19195359	Nidhi Umath	Electrophoresis
31	19195360	Payal Rathore	Electrophoresis
32	19195361	Poonam Binjhade	Chromatography

33	19195362	Priyanka Dwivedi	Chromatography
34	19195363	Priyanka Rathore	Chromatography
35	19195364	Priyanka Tailor	Chromatography
36	19195365	Rahul Chawalkar	Gel Electrophoresis
37	19195366	Rajni Malviya	Gel Electrophoresis
38	19195367	Ravina Chaudhari	Auto radiography
39	19195368	Reetu Patidar	Chromatography
40	19195369	Rishita Jain	Auto radiography
41	19195370	Rohit Kumar	Microscopy
42	19195371	Roshanee Vasuniya	Microscopy
43	19195372	Sadhana Mandloi	PCR
44	19195373	Sanjay Panchal	PCR
45	19195374	Shruti Sharma	Auto radiography
46	19195375	Sweta Alawa	Auto radiography
47	19195376	Sohan Sonvaniya	Application of light microscope
48	19195377	Sonam Saurashtry	Microscopy
49	19195378	Sujata Soni	PCR
50	19195379	Uma Gothi	Chromatography
51	19195387	Vipul Dwivedi	Microscopy
52	18180371	Azher Qureshi	Chromatography
53		Mahima Suryawanshi	Auto radiography

Govt. Madhav Science P.G. College, Ujjain (M.P.)

M.Sc. (First Semester) 2019-2020

ZOOLOGY

Paper : II

Structure and Function of Invertebrates

C.C.E. – I Paper **M.M. 10**

- Dr. S. Souche and Dr. A. A. Siddiqui

Note : Attempt all the questions. Each question carry half mark. Tick (✓) the correct answer only.

सभी प्रश्न करना है । प्रत्येक प्रश्न आधा अंक का है । केवल सही उत्तर पर सही (✓) का निशान अंकित करें ।

Q.1 In which Arthopod's antennary gland white medullary canal is found in between labyrinth and bladder ?

किस आर्थोपोड की एन्टीनरी ग्रंथी में ब्लेडर एवं लेब्रिन्थ के बीच सफेद मेड्यूलरी नलिका पाई जाती है ?

(a) Prawn प्रान (b) Carcinus कार्सिनस (c) Astacus एस्टेका (d) Scorpion बिच्छु

Q.2 Uricotelism is adaptation for which habitat ?

किस आवास के लिए यूरिकोटेलिस्म एक अनुकूलन है ?

(a) Fresh water habitat स्वच्छ जलीय आवास

(b) Massive water habitat समुद्रीय जलीय आवास

(c) Eustarine water habitat

(d) Dry and desert condition शुष्क एवं मरूस्थलीय परिस्थितियॉ

Q.3 Contractile vacuole in excretory and osmoregulatory organ in spirostomum. This animal belongs to which phyum ?

संकुचन शील यानी स्पाइशेस्टीमय में एक उत्सर्जी एवं परासरण अंग है । यह जंतु किस फायलस से संबंधित है ?

(a) Porifera (b) Protozoa (c) Coelenterata (d) Plasyhelminthes

Q.4 How many free thoracic ganglia are found in Squilla ?

स्कवीला में कितने स्वतंत्र वक्षीय गैंगलिया पाये जाते है ?

(a) 3 (b) 5 (c) 7 (d) Not anyone एक भी नहीं

Q.5 When one or more pair of spiracles remain closed, the tracheal system is called?

जब एक या अधिक स्पाइरेकल्स बंद रहते है तो ट्रेचिअल तंत्र कहलाता है ?

(a) Holopneustic होलोपन्यूस्टिक (b) Apneustic एपन्यूस्टिक

(c) Hemipneustic हेमीपन्यूस्टिक (d) Mesopneustic मीसोप्यन्यूस्टिक

Q.6 Dermal branchiae (Papulae) are simplest form of gills found in

सबसे सरलतम क्लोम उर्मल ब्रान्की (पेपुली) होते हैं, ये पाये जाते है ?

(a) in Gastropods (b) in Cephalopods (c) in Crustaceans (d) in Echinoderms

Q.7 In spiders, respiratory organs are :

स्पाइडर्स में श्वसन अंग होते है ?

(a) Gills (b) Book lungs (c) Trachae and Book Lungs (d) Tracheae

Q.8 In nematode parasitic forms excretory canals look like capital letter

नीमेटोड परजीवी में उत्सर्जी नलिकाऐं केपीटल अक्षर के समान दिखाई देती है –

(a) N (b) H (c) P (d) E

Q.9 Coxal glands are excretory organs of :

कोएक्सल ग्रन्थियॉ –

(a) Macrobrachium (b) Penaeus (c) Scropion (d) Unio

Q.10 Neurite means

न्यूराइट का अर्थ होता है –

(a) Nerve cell तंत्रिका कोशिका (b) Cyton साइटॉन

(c) Perikaryon पेरिकेरियान (d) Nerve processes तंत्रिका प्रवर्ध

Q.11 In which annelid brain is bilobed ?

किस एनीलीड में मस्तिष्क दो पाली में बना होता है ?

(a) Pheretima फेरिटेमा (b) Nereis नीरोज

(c) Hir हिसडिकेरिया (d) Sipunculus साइपनकुलस

Q.12 Osmoregulatory organ of mosquito larvae are :

मच्छरों के लार्वियों में परासरणीय अंग होते है –

(a) Gills गिल्स (b) Nephridia नेफ्रीडिया (c) Anal papillae एनल पेपीलो

(d) None of above उपरोक्त में से कोई नहीं

Q.13 In Haemocyanin respiratory pigment associated metallic ion in :

हीमोसाएनीन श्वसन वाकि में मेटेलिक आयन होता है –

(a) Iron (b) Copper (c) Manganese (d) Magnesium

Q.14 This is euryhaline crab

यह एक युरिहेलाइन क्रेब है –

(a) Limulus (b) Hermit crab (c) Maiq (Spider crab) (d) Carcinus

Q.15 Filter Feeding mechanism is found in Annelids :

फिल्टर अश्न विधि एनीलिड्स में पाई जाती है –

(a) Oligochaetes (b) Polychaetes (c) Hirundinea (d) None of the above

Q.16 Excretory organs of flat worms are :

चपेट क्रमी के उत्सर्जन अंग है –

(a) Metanephridia (b) Meganephridia (c) Protonephridia

(d) Malpighian tubules.

Q.17 How many molecules of oxygen carried by single molecule of haemoglobin ?

हीमोग्लोबिन के एक अणु के द्वारा ऑक्सीजन के कितने अणु ले जाए जाते है ?

(a) 1 (b) 4 (c) 2 (d) 3

Q.18 Monopectinate gills (comb like) gills are found in :

(a) Gastropods (b) Cephalopods (c) Bivalved (d) Crustoccay.

Q.19 Who has written the book “Invertebrate Zoology III Edition” published by W.B. Saunders Co. Philadelphia .

डब्ल्यू, बी, सॉन्डर्स कम्प्पनी फिलाडेल्फिया के द्वारा प्रकाशित किताब 'इन्वर्ट्रीब्रेट जूलॉजी तृतीय एडीशन' किसके द्वारा लिखी गई है ?

(a) Russel Hunter, W.D. (b) Hyman, L.H. (c) Barners, R.D. (d) Read, C.P.

Q.20 How many Professors teach you in Zoology department ?

जूलॉजी डिपार्टमेन्ट में कितने प्रोफेसर आपको पढ़ाते है ?

(a) 6 (b) 5 (c) 8 (d) 7

CCE

Computer Science

S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Sem	2015-16	CS & CA	MCQ
2.	B.Sc. 2nd Sem	2015-16	CS & CA	MCQ
3.	B.Sc. 3rd Sem	2015-16	CS & CA	Charts
4.	B.Sc. 4rt Sem	2015-16	CS & CA	Charts
5.	B.Sc. 5th Sem	2015-16	CS & CA	Assignments
6.	B.Sc. 6th Sem	2015-16	CS & CA	MCQ

S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Sem	2016-17	CS & CA	MCQ
2.	B.Sc. 2nd Sem	2016-17	CS & CA	MCQ
3.	B.Sc. 3rd Sem	2016-17	CS & CA	MCQ
4.	B.Sc. 4rt Sem	2016-17	CS & CA	Assignments
5.	B.Sc. 5th Sem	2016-17	CS & CA	Assignments
6.	B.Sc. 6th Sem	2016-17	CS & CA	Assignments

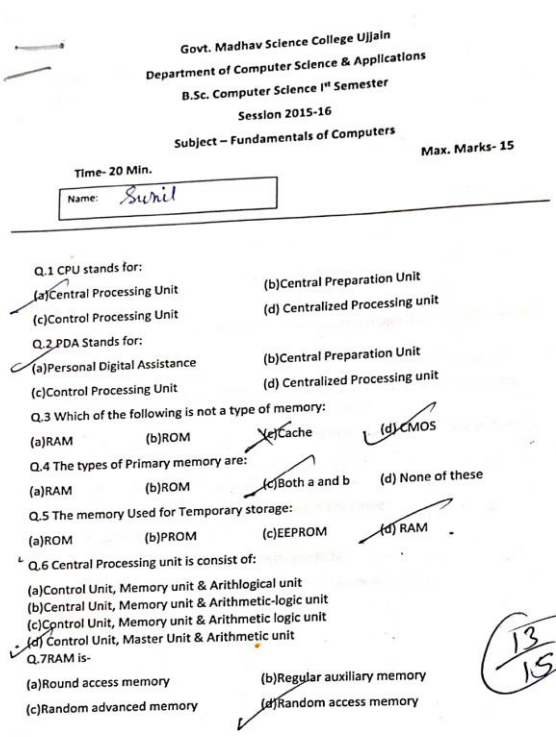
S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Year	2017-18	CS & CA	MCQ
2.	B.Sc. 3rd Sem	2017-18	CS & CA	Assignments
3.	B.Sc. 4rt Sem	2017-18	CS & CA	Assignments
4.	B.Sc. 5th Sem	2017-18	CS & CA	PPT
5.	B.Sc. 6th Sem	2017-18	CS & CA	PPT

S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Year	2018-19	CS & CA	Assignments
2.	B.Sc. 2nd Year	2018-19	CS & CA	Assignments
3.	B.Sc. 5th Sem	2018-19	CS & CA	PPT
4.	B.Sc. 6th Sem	2018-19	CS & CA	PPT

S. No.	Class	Session	Paper name	Mode
1.	B.Sc. 1st Year	2019-20	CS & CA	Assignments
2.	B.Sc. 2nd Year	2019-20	CS & CA	Assignments
3.	B.Sc. 3rd Year	2019-20	CS & CA	Assignments

Supportive file 2015-16

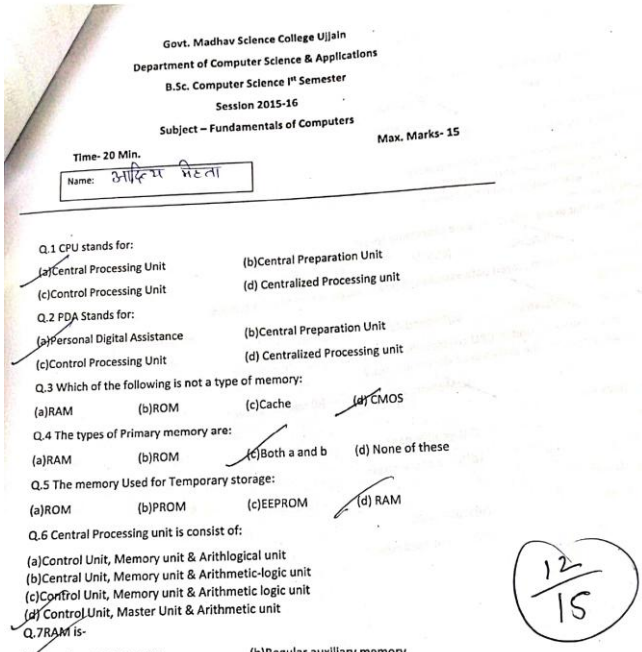
1st Sample MCQ Answer sheet



Govt. Madhav Science College Ujjain
Department of Computer Science & Applications
B.Sc. Computer Science I st Semester
Session 2015-16
Subject – Fundamentals of Computers
Time- 20 Min. Max. Marks- 15
Name: Sunil

Q.1 CPU stands for:
(a)Central Processing Unit (b)Central Preparation Unit
(c)Control Processing Unit (d) Centralized Processing unit
Q.2 PDA Stands for:
(a)Personal Digital Assistance (b)Central Preparation Unit
(c)Control Processing Unit (d) Centralized Processing unit
Q.3 Which of the following is not a type of memory:
(a)RAM (b)ROM (c)Cache (d) CMOS
Q.4 The types of Primary memory are:
(a)RAM (b)ROM (c)Both a and b (d) None of these
Q.5 The memory Used for Temporary storage:
(a)ROM (b)PROM (c)EEPROM (d) RAM
Q.6 Central Processing unit is consist of:
(a)Control Unit, Memory unit & Arithlogical unit
(b)Central Unit, Memory unit & Arithmetic-logic unit
(c)Control Unit, Memory unit & Arithmetic logic unit
(d) Control Unit, Master Unit & Arithmetic unit
Q.7RAM is-
(a)Round access memory (b)Regular auxiliary memory
(c)Random advanced memory (d)Random access memory

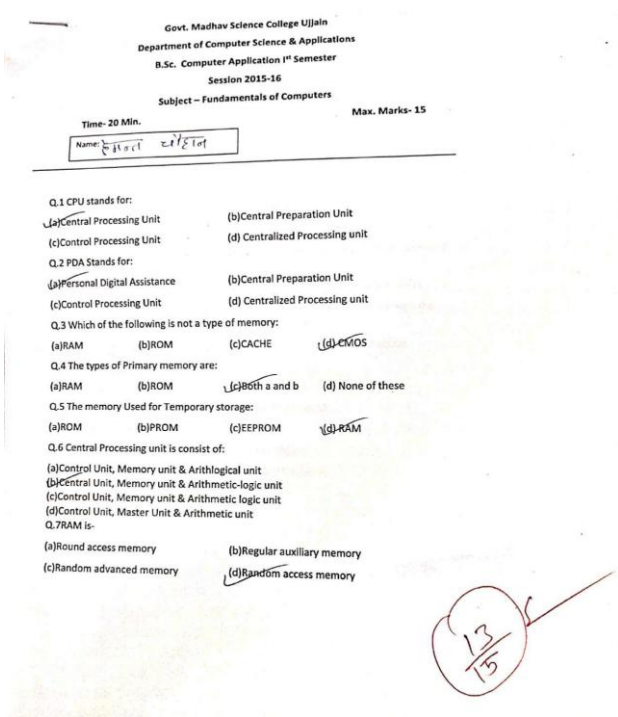
13/15



Govt. Madhav Science College Ujjain
Department of Computer Science & Applications
B.Sc. Computer Science I st Semester
Session 2015-16
Subject – Fundamentals of Computers
Time- 20 Min. Max. Marks- 15
Name: अभिषेक मेहता

Q.1 CPU stands for:
(a)Central Processing Unit (b)Central Preparation Unit
(c)Control Processing Unit (d) Centralized Processing unit
Q.2 PDA Stands for:
(a)Personal Digital Assistance (b)Central Preparation Unit
(c)Control Processing Unit (d) Centralized Processing unit
Q.3 Which of the following is not a type of memory:
(a)RAM (b)ROM (c)Cache (d) CMOS
Q.4 The types of Primary memory are:
(a)RAM (b)ROM (c)Both a and b (d) None of these
Q.5 The memory Used for Temporary storage:
(a)ROM (b)PROM (c)EEPROM (d) RAM
Q.6 Central Processing unit is consist of:
(a)Control Unit, Memory unit & Arithlogical unit
(b)Central Unit, Memory unit & Arithmetic-logic unit
(c)Control Unit, Memory unit & Arithmetic logic unit
(d) Control Unit, Master Unit & Arithmetic unit
Q.7RAM is-
(a)Round access memory (b)Regular auxiliary memory
(c)Random advanced memory (d)Random access memory

12/15



Govt. Madhav Science College Ujjain
Department of Computer Science & Applications
B.Sc. Computer Application I st Semester
Session 2015-16
Subject – Fundamentals of Computers
Time- 20 Min. Max. Marks- 15
Name: [illegible]

Q.1 CPU stands for:
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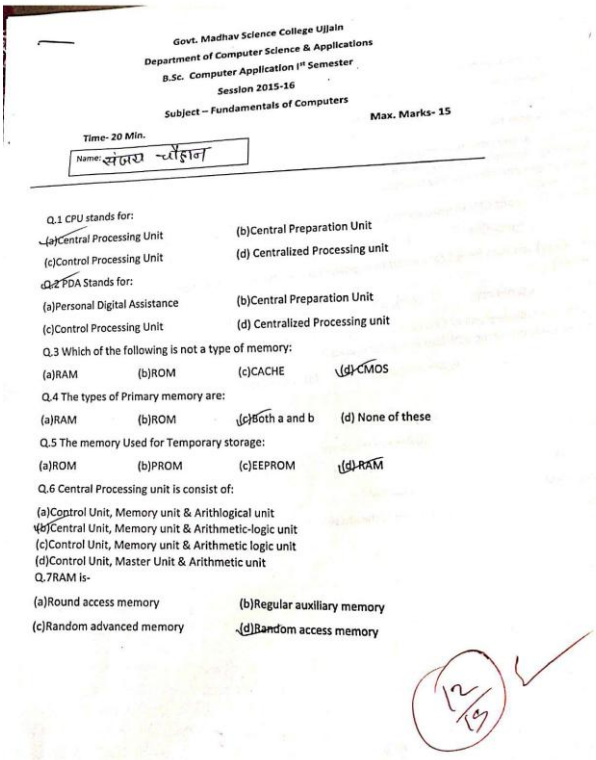
13/15



Govt. Madhav Science College Ujjain
Department of Computer Science & Applications
B.Sc. Computer Application I st Semester
Session 2015-16
Subject – Fundamentals of Computers
Time- 20 Min. Max. Marks- 15
Name: [illegible]

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12/15

2nd Sem Sample MCQ

Govt. Madhav Science College Ujjain
Department of Computer Science & Applications
B.Sc. Computer Science II Semester
Session 2015-16
Subject – Programming in C

Time- 20 Min. Max. Marks- 15

Name: Nitesh Gupta

Q.1 Who is father of c language
(a)Martine Richard (b)Ken Thompson (c)Dennis Ritchie (d) Charles Babbage

Q.2 C is a:
(a)Structured Language (b)Middle level language
(c) Both a and b (d)None of these

Q.3 How many memory is required to store a value of type integer:
(a)1 byte (b) 2 byte (c)4 byte (d)8 byte

Q.4 Which of the following is a relational operator:
(a)+ (b)> (c)&& (d)XOR

Q.5 Which operator in c is called conditional operator:
(a)&& (b)++ (c)<< (d) (?:)

Q.6 Which operator works on Boolean value:
(a)Arithmetic Operator (b) Conditional Operator
(c)Bitwise Operator (d) Logical Operator

Q.7 Which among the following is an unformatted string input function ?
(a) put() function (b)putch() function
(c)getch() function (d)gets() function

Q.8 Which function is used to terminate the current iteration?
(a)break (b)goto (c)return (d)switch

Q.9 how many basic loop statements are there in C language?
(a)2 (b)3 (c)4 (d)5

13/15

Govt. Madhav Science College Ujjain
Department of Computer Science & Applications
B.Sc. Computer Science I Semester
Session 2015-16
Subject – Programming in C

Time- 20 Min. Max. Marks- 15

Name: ADARSH JAIN

Q.1 Who is father of c language
(a)Martine Richard (b)Ken Thompson (c)Dennis Ritchie (d) Charles Babbage

Q.2 C is a:
(a)Structured Language (b)Middle level language
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11/15

Govt. Madhav Science College Ujjain
Department of Computer Science & Applications
B.Sc. Computer Application II Semester
Session 2015-16
Subject – Programming in C

Time- 20 Min. Max. Marks- 15

Name: PARAS ANARE

Q.1 Who is father of c language
(a)Martine Richard (b)Ken Thompson (c)Dennis Ritchie (d) Charles Babbage

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(a)Structured Language (b)Middle level language
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12/15

Govt. Madhav Science College Ujjain
Department of Computer Science & Applications
B.Sc. Computer Application II Semester
Session 2015-16
Subject – Programming in C

Time- 20 Min. Max. Marks- 15

Name: Kanheyalal

Q.1 Who is father of c language
(a)Martine Richard (b)Ken Thompson (c)Dennis Ritchie (d) Charles Babbage

Q.2 C is a:
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(c) Both a and b (d)None of these

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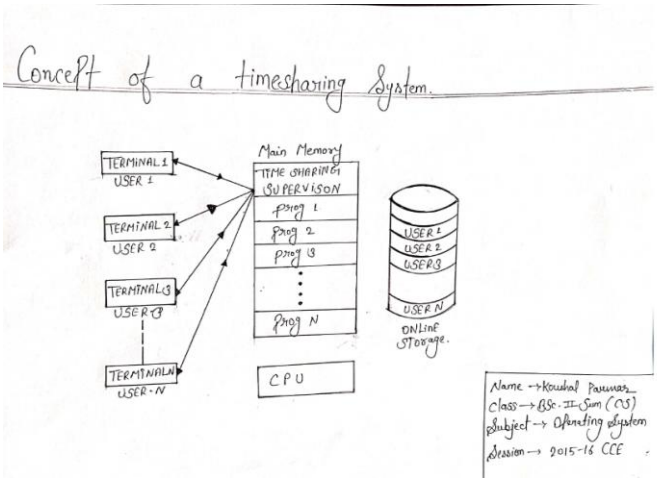
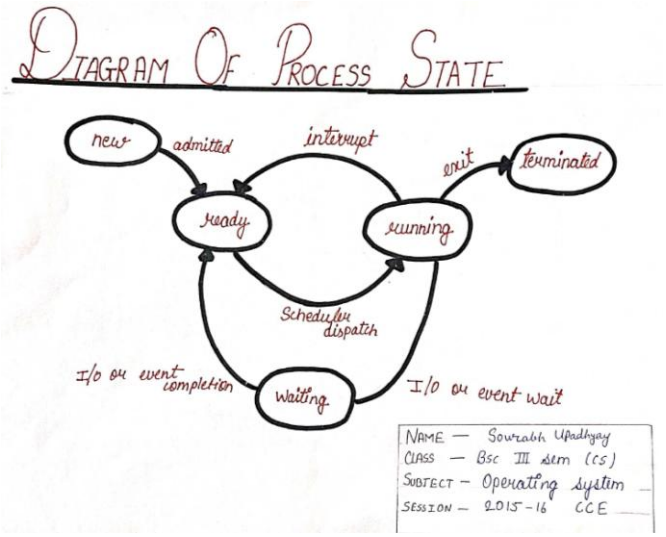
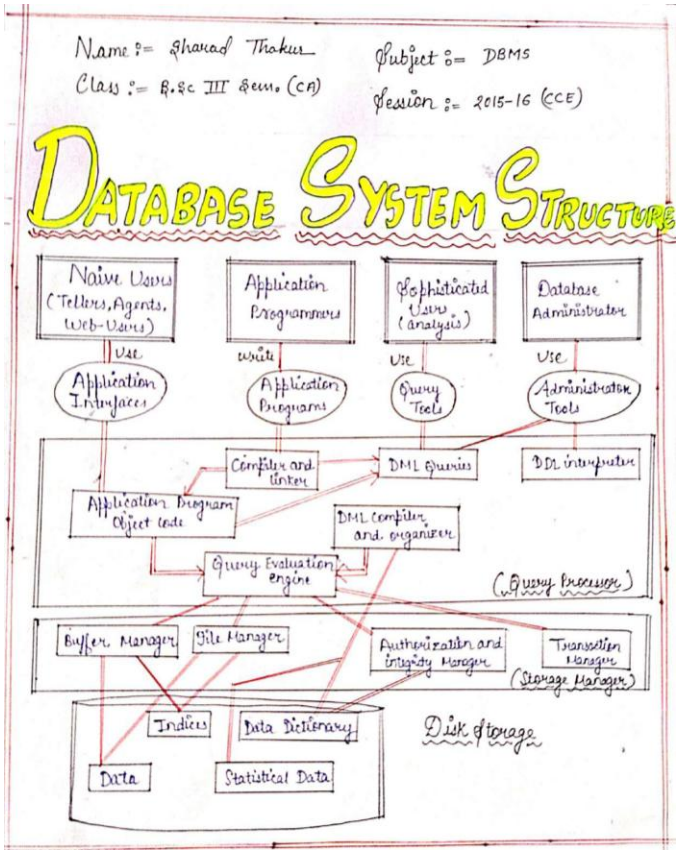
(a)2 (b)3 (c)4 (d)5

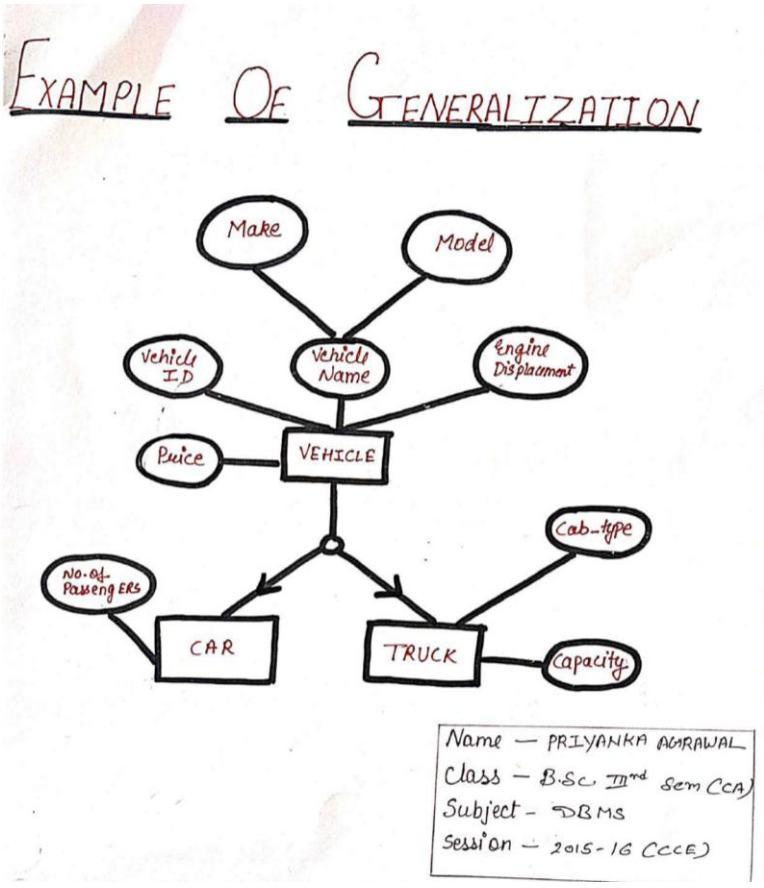
13/15

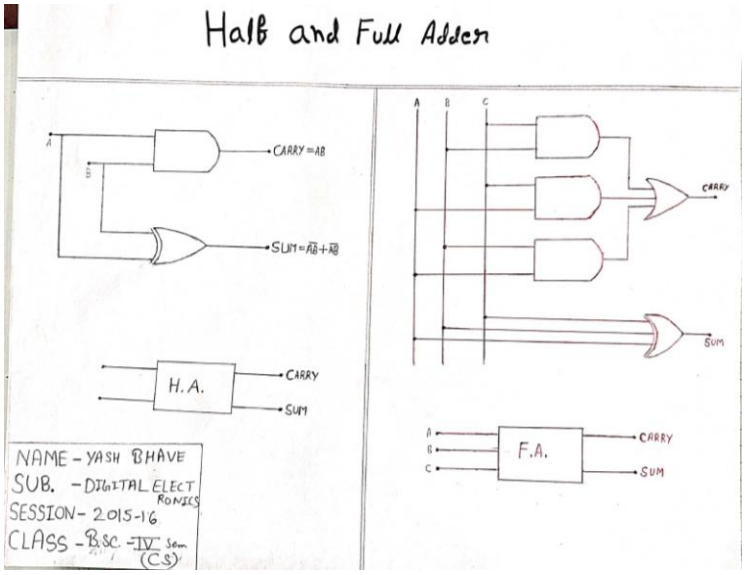
3rd Sem Sample Chart

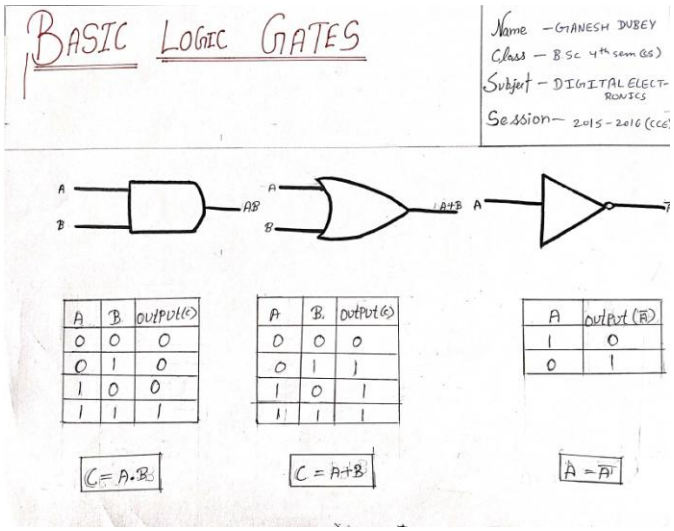


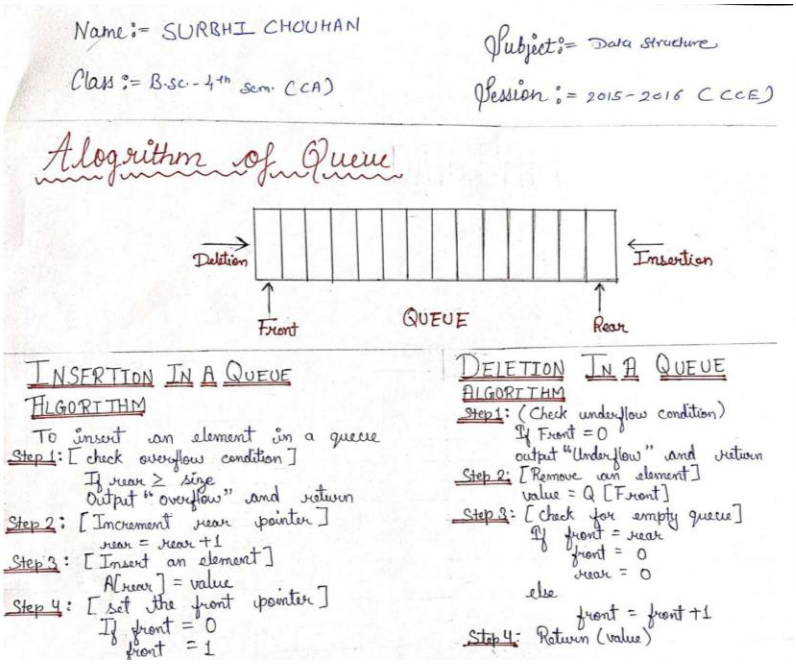


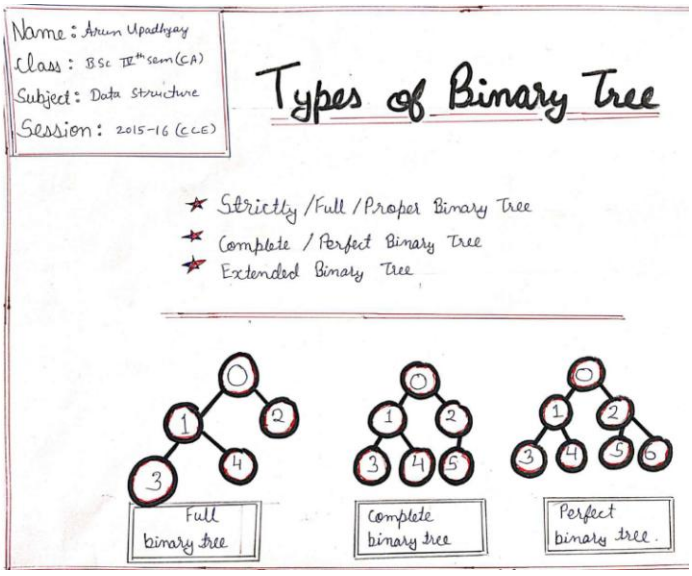












Name :- Mukesh Anand
Class :- B.Sc II sem (CS)
Subject :- graphics
Session :- 2015-2016

(1)

Q1 what is scanner ? Explain its type.

⇒ Scanner is a device that capture images from photographic prints, posters, magazine pages and similar for computer editing & display

Types of Scanner

Flatbed Scanner -

Flatbed scanners will take up some desktop space but provide a lot of bang for the buck. They look like miniature printers with a flip up cover protecting the glass plate. Flatbed scanners are some of the most commonly used scanners as it has both home and office function -

Govt. Madhav Science P.G. College, Ujjain

Question No.	Marks Obtained
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Total	
Out of	

Signature of Principal

Name : Apurva Singh
Father's Name :
Class : B.Sc IV - Sem. (CA)
Section :
Subject : VB (Visual Basic)
Date of Examination : 2015-16
Signature of Invigilator :

Signature of Valuer

12/15

Govt. Madhav Science P.G. College, Ujjain

Question No.	Marks Obtained
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Total	
Out of	

Signature of Principal

Name : Shivani mahajya
Father's Name :
Class : B Sc V Sem
Section : (CA)
Subject : Visual Basic
Date of Examination : 2015-16
Signature of Invigilator :

Signature of Valuer

13/15

Govt. Madhav Science P.G. Coliege, Ujjain

Question No.	Marks Obtained
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Signature of Principal

Name : Nisha Dangi
Father's Name :
Class : B.Sc [IV th Sem]
Section :
Subject : Java
Date of Examination : 2015 - 16
Signature of Invigilator :

Signature of Valuer

12/15

Q) What is JVM?

Ans) A Java virtual machine [JVM] is a virtual machine that enables a computer to run java programs as well as programs written in another language that are also compiled to Java bytecode. The JVM is detailed by a specification that formally describe what is required in a JVM implementation. Having a specification ensures interoperability so that programs authors using the Java development kit [JDK] need not worry about idiosyncrasies of the underlying hardware platform.

Q) what is class Java?

Ans) Java is an objects - oriented programming language. Everything in Java is associated with classes and objects, along with its attributes and methods. For example in real life, a car is an object the car has attributes

Name — Dilip limbadiya
class — B.Sc VI Sem. (CA)
Sub — JAVA
2015-16

13/15

Que - What is the Constructor ?

Ans In class - based object - oriented programming a Constructor is a special type of subroutine called to creat an object. It prepares the new object for use, often accepting arguments that the constructor uses to set required member variables. A constructor resembles an instance method but it differs from a method in that it has no explicit return type. It is not implicitly inherited and it usually has different rules for scope modifiers. Constructors often have the same name as the declaring class. They have the tasks of initializing the object's data members and of establishing the

Supportive file 2016-17
1st sem Sample MCQ

Govt. Madhav Science College Ujjain
Department of Computer Science & Applications
B.Sc. Computer Application I st Semester
Session 2016-17
Subject – Fundamentals of Computers

Time- 20 Min. Max. Marks- 15

Name: Payal Gupta

Q.1 Input of images is provided to the computer through:
(a)OMR (b)OCR (c)MICR (d)Scanner

Q.2 In Multiple choice examinations following can be used to process results quickly:
(a)OCR (b)OMR (c)Barcode Reader (d)Scanner

Q.3 For verification of legal & bank documents, following technique is used:
(a)OCR (b)MICR (c)OMR (d)Barcode

Q.4 In shopping malls following device is used to input items at billing counters:
(a)OCR (b)MICR (c)OMR (d)Barcode Reader

Q.5 In which type of mouse a LED(Light Emitting Diode)and a photo sensor is used to sense the motion
(a)Optical (b)Mechanical (c)Air (d)None of the above

Q.6 _____ are also very popular on PDAs and ATMs.
(a)Barcode (b)Joystick (c)Trackball (d)Touch screen

Q.7 Which of the following can be used for both input & output:
(a)Monitor (b)Laser Printer (c)Touch Screen (d)Joystick

Q.8 _____ Scanner is a type of Scanner on which original Document is Attached to the outside of a spinning glass drum.
(a)Drum (b)Flatbed (c)Handheld (d)Circular

Q.9 OCR Stands For:
(a)Optical Character Reader (b)Optical Character Recognition
(c)Original Character Recognition (d)None of the above

12/15

Govt. Madhav Science College Ujjain
Department of Computer Science & Applications
B.Sc. Computer Application I st Semester
Session 2016-17
Subject – Fundamentals of Computers

Time- 20 Min. Max. Marks- 15

Name: प्रियांशु अग्रवाल

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Govt. Madhav Science College Ujjain
Department of Computer Science & Applications
B.Sc. Computer Science I st Semester
Session 2016-17
Subject – Fundamentals of Computers

Time- 20 Min. Max. Marks- 15

Name: Achal Jain

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Govt. Madhav Science College Ujjain
Department of Computer Science & Applications
B.Sc. Computer Science I st Semester
Session 2016-17
Subject – Fundamentals of Computers

Time- 20 Min. Max. Marks- 15

Name: Rohit Joshi

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11/15

2nd Sem

Govt. Madhav Science College Ujjain
Department of Computer Science & Applications
B.Sc. Computer Science II Semester
Session 2016-17
Subject – Programming in C
Time- 20 Min. Max. Marks- 15

Name: Swabh Dabhade

Q.1 Which of the following is not a valid identifier in C language?
(a)EMP_CODE (b) rollno123 (c)a1b2c3d4 (d)3a2b1c

Q.2 Which of the Following is not a valid data type in C language ?
(a)char (b)float (c)list (d) double

Q.3 Which of the Following Declaration is not correct ?
(a)float a; (b)int b=4; (c)char c; (d) unsigned float d;

Q.4 A variable of type int in C can take a value in range
(a)0 to 32767 (b)0 to 65535 (c)-32768 to -32767 (d)-32767 to +32768

Q.5 Which of the following is not a reserved word in C language ?
(a)for (b)goto (c)then (d)switch

Q.6 How much memory is required to store a value of double
(a) 4 bytes (b)6bytes (c)8bytes (d)10bytes

Q.7 Which statement is used to transfer the control from current location to anywhere in the program
(a)break (b)Switch (c) continue (d)goto

Q.8 Which of the following is not a control statement in C language
(a)for statement (b)repeat-untill statement
(c) switch statement (d) goto statement

Q.9 The Continue Statement cannot be used with:
(a)for (b) Switch (c) do (d)while

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Govt. Madhav Science College Ujjain
Department of Computer Science & Applications
B.Sc. Computer Science II Semester
Session 2016-17
Subject – Programming in C
Time- 20 Min. Max. Marks- 15

Name: Pawan

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11/15

Govt. Madhav Science College Ujjain
Department of Computer Science & Applications
B.Sc. Computer Application II Semester
Session 2016-17
Subject – Programming in C
Time- 20 Min. Max. Marks- 15

Name: अतुल रावत

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10/15

Govt. Madhav Science College Ujjain
Department of Computer Science & Applications
B.Sc. Computer Application II Semester
Session 2016-17
Subject – Programming in C
Time- 20 Min. Max. Marks- 15

Name: Saurabh Bhati

Q.1 Which of the following is not a valid identifier in C language?
(a)EMP_CODE (b) rollno123 (c)a1b2c3d4 (d)3a2b1c

Q.2 Which of the Following is not a valid data type in C language ?
(a)char (b)float (c)list (d) double

Q.3 Which of the Following Declaration is not correct ?
(a)float a; (b)int b=4; (c)char c; (d) unsigned float d;

Q.4 A variable of type int in C can take a value in range
(a)0 to 32767 (b)0 to 65535 (c)-32768 to +32767 (d)-32767 to +32768

Q.5 Which of the following is not a reserved word in C language ?
(a)for (b)goto (c)then (d)switch

Q.6 How much memory is required to store a value of double
(a) 4 bytes (b)6bytes (c)8bytes (d)10bytes

Q.7 Which statement is used to transfer the control from current location to anywhere in the program
(a)break (b)Switch (c) continue (d)goto

Q.8 Which of the following is not a control statement in C language
(a)for statement (b)repeat-untill statement
(c) switch statement (d) goto statement

Q.9 The Continue Statement cannot be used with:
(a)for (b) Switch (c) do (d)while

07/15

3rd Sem

Session – 2016-17

Govt. Madhav Science P.G. College, Ujjain

COORDINATOR
Department of Comp. Sc. & Appl.
Govt. Madhav Vigyan Mahavidyalaya
UJJAIN

Signature of Principal

Question No.	Marks Obtained
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Total	
Out of	

Name : Ayushi Nagar.
Father's Name :
Class :
Section : B.S.C 3rd Sem. (C.A)
Subject : DBMS
Date of Examination :
Signature of Invigilator :

Signature of Valuer

11/15

Session – 2016-17

Govt. Madhav Science P.G. College, Ujjain

COORDINATOR
Department of Comp. Sc. & Appl.
Govt. Madhav Vigyan Mahavidyalaya
UJJAIN

Signature of Principal

Question No. | Marks Obtained
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total | Out of

Name : Ayushi Nagar.
Father's Name :
Class :
Section : B.S.C 3rd Sem. (C.A)
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Signature of Valuer

11/15

Govt. Madhav Science P.G. College, Ujjain

Signature of Principal

Question No.	Marks Obtained
1	
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Out of	

Name : MADHVI SHARMA
Father's Name :
Class : B.Sc III SEM. (CS)
Section : 2016-17
Subject : OPERATING - SYSTEM
Date of Examination :
Signature of Invigilator :

Signature of Valuer

11/15

Govt. Madhav Science P.G. College, Ujjain

Signature of Principal

Question No. | Marks Obtained
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total | Out of

Name : MADHVI SHARMA
Father's Name :
Class : B.Sc III SEM. (CS)
Section : 2016-17
Subject : OPERATING - SYSTEM
Date of Examination :
Signature of Invigilator :

Signature of Valuer

11/15

4th Sem

Name — Arvind Dangi

Class — B. Sc. IV Semester (C.S.)

Subject — DCO

Session — 2016-17

13/15

Q.3 State and prove demorgan's theorem.

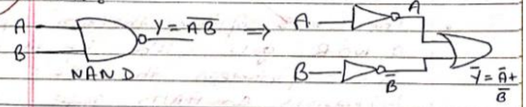
Ans De Morgan has suggested two theorems which are extremely useful in Boolean Algebra. The two theorems are discussed below.

Theorem 1

$$\overline{A.B} = \bar{A} + \bar{B}$$

NAND = Bubbled OR

- The left hand side (LHS) of this theorem represents a NAND gate with inputs A and B, whereas the right hand side (RHS) of the theorem represents an OR gate with inverted inputs.
- This OR gate is called as Bubbled OR.



NAND ≡ Bubbled OR

Name :- Hemant Chouhan.

Class :- B. Sc.A. 4th Sem

Subject :- Data Structure

Session — 2016-17

10/15

Ans: Estate, Information Technology term for a set of computers and other technology infrastructure, generally the total set owned by a corporation, as in "Estate Management" See ITIL and other standards. In drugs, Estate is the name of estradiol valerate & also for Atorvastatin.

(4) Algorithm :-

To PUSH information in the stack.

Step 1:- (check for stack overflow)

If TOS ≥ size
output "stack overflow" and exit

VB

2016-17

B.Sc 5th Sem. (CA)

12/15

Q. What is the command button & Label?

Ans. In the previous chapter, we understood how to write a simple program in visual Basic. In this chapter, we will understate how to use elementary controls text box, label and command button. Nothing compares to hands on experience. So we learn by doing it. Each chapter in this book contains one or more sample applications to explain how to use the topic that is discussed in the chapter. In this chapter, we will develop a simple application that illustrates how to use text box, label and command button controls.

Text box is used to take input from user. user can key in the data into a text box with all editing facilities

Q. What is check box?

Ans. A checkbox is a Gui widget that permits the user make a binary choice i.e. a choice between one of two possible mutually exclusive option. For example, the user may have to answer 'yes' (checked) or 'no' (not

Name - palkesh soni
subject - computer graphics
session - 2016-17
class - Bs.c 5th sem

11/15

Que1 Explain application of computer Graphics?

Ans. Application of computer Graphics.

computer graphics deals with creation manipulation and storage of different type of images and objects.

some of the applications of different type of images and objects.

1. computer Art:
using computer graphics we can create fine and commercial art which include animation packages, paint packages. These packages provide facilities for designing object shapes and specifying object motion. cartoon drawing, painting, logo design can also be done.

2. computer Aided Drawing:
Designing of buildings automobile aircraft is done with the help of computer aided drawing this helps in providing minute

Q2. what is DDA Explain DDA algorithm?

Ans. DDA:- In computer graphics, a digital differential analyzer (DDA) is hardware or software used for interpolation of variables over an interval between start and end point. DDA are used for resterization of lines, triangles and polygons.

Algorithm:-

A liner DDA starts by calculation the smaller of ~~by~~ dy or dy for a unit increment of the other. A line is then sampled at unit intervals in one coordinate and

considering a line with positive slope, if the slope is less than or equal to 1. we sample at unit x intervals ($dx = 1$) and compute successive y values as

B.Sc VI Semester

(CS)

2016-17

Ajay Kumar

11/15

Q.2. What is the Package ?

Ans2 A java package organizes Java classes into mespaced providing a unique namespace of each type it Contains classes in the Same package private and protected can contain the following kind of types classes, interfaces enumeration and anotation types.

A package allows a developer to group classes and interfaces, together these classes will all be related in some way, they might all have to do with a specific set of tasks. programmers also typically use packages to orghize classes belonging to the same category or providing similar fuctionali

2016-17

B.Sc VI Sem.

CCA)

GOVIND YADAV

12/15

Q 1 What is a Constructors ?

Ans When a class object is created its Constructor is called. Constructors have the same name as the class or object, and they usually initialize the data members of the new object. in the following example a class named Taxi is defined by using a Simple Constructors. This class is then instantiated with the new operator. The Taxi Constructor is invoked by the new operator is invoked by the operator immediately after memory is allocated for the new object.

Q. What is is class ?

2017-18

1st Year

GOVT. Madhav Science College Ujjain

Department of Computer Science & Applications

B.Sc. Computer Application Ist Year

Session 2017-18

Paper 1 – Fundamentals of Computer and PC Software

Time- 15 Min. Max. Marks- 10

Name:

Q.1 Input of images is provided to the computer through:
(a)OMR (b)OCR (c)MICR (d)Scanner

Q.2 The memory Used for Temporary storage:
(a)ROM (b)PROM (c)EEPROM (d) RAM

Q.3 Memory that assist CPU to increase processing speed-
(a)RAM (b)Cache (c)ROM (d) Hard disk

Q.4 CPU stands for:
(a)Central Processing Unit (b)Central Preparation Unit
(c)Control Processing Unit (d) Centralized Processing unit

Q.5 Which of the following is not a Pointing Device
(a)Mouse (b)Trackball (c)Joystick (d)Scanner

Q.6 Which of the following is not a characteristic of computer
(a)Speed (b)Accuracy (c)Memory (d)Purity

Q.7 In shopping malls following device is used to input items at billing counters:
(a)OCR (b)MICR (c)OMR (d)Barcode Reader

Q.8 In which type of mouse a LED (Light Emitting Diode)and a photo sensor is used to sense the motion:
(a)Optical (b)Mechanical (c)Air (d)None of the above

Q.10 Full form of CRT is:
(a)Cathode ray tube (b)Cathode ray table
(c)Crystal ray tube (d)None of these

GOVT. Madhav Science College Ujjain

Department of Computer Science & Applications

B.Sc. Computer Application Ist Year

Session 2017-18

Paper 1 – Fundamentals of Computer and PC Software

Time- 15 Min. Max. Marks- 10

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Govt. Madhav Science College Ujjain

Department of Computer Science & Applications

B.Sc. Computer Science Ist Year

Session 2017-18

Paper 1 – Fundamentals of Computers

Max. Marks- 10

Time- 15 Min.

Name:

Q.1 Input of images is provided to the computer through:
(a)OMR (b)OCR (c)MICR (d)Scanner

Q.2 In which type of mouse a LED and a photo sensor is used to sense the motion
(a)Optical (b)Mechanical (c)Air (d)None of the above

Q.3 RAM is-
(a)Round access memory (b)Regular auxiliary memory
(c)Random advanced memory (d)Random access memory

Q.4 Primary memory is:
(a)Volatile (b)Non-Volatile (c)Both (d) None

Q.5 In PROM data is written on chip using:
(a)Heating (b)UV rays (c)Chemical process (d)High voltage current

Q.6 EPROM stands for-
(a)Electronic programmable read only memory
(b) Electric programmable read only memory
(c) Erasable programmable read only memory
(d) None of above

Q.7 Which of the following is not a characteristic of computer
(a)Speed (b)Accuracy (c)Memory (d)Purity

Q.8 All the Physical Components of a computer system is called as:
(a)Software (b)Hardware (c)Firmware (d)None of these

Q.9. What is the base of hexadecimal notation of a number:
(a)2 (b)8 (c)10 (d)16

Q.10 What is the value of $(11001010)_2$ in decimal :
(a) 200 (b)201 (c)202 (d)203

Govt. Madhav Science College Ujjain

Department of Computer Science & Applications

B.Sc. Computer Science Ist Year

Session 2017-18

Paper 1 – Fundamentals of Computers

Time- 15 Min. Max. Marks- 10

Name:

Q.1 Input of images is provided to the computer through:
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Name - JITENDRA SALITRA.

Subject - D.B.MS

Class - B.Sc III Sem. (CA)

Session - 2017-18.

14/15

Q1 Explain Traditional file System V/s DBMS?

Ans ⇒ (1) DBMS is very Expensive but the traditional file System is Cheap.

(2) DBMS is good for the large System, but the Traditional file System is good for a small System having a small NO: of Item

(3) DBMS required lots of effort for designing but traditional file System is very low design effort.

(4) DBMS is highly secured but the Traditional file System is NOT secure

Name - Ankit Dalei

Subject - operating System

class - BSc III Sem (CS)

Session - 2017-18

12/15

Q.1 what is operating system.? Explain function of operating System?

Ans 1 Operating System:-

An operating system (OS) is system software that manage computes hardware, software resources and provides common services for computes programs. An operating system is a software that acts as a interface between computes hardware components & the user. Every computes system must have atleast one operating system to run other programs. Applications like browser, notepad, M.S. Office, games etc. need some environment to run & perform its tasks.

The OS helps you To

Name : Subham

Class : B.Sc IV CA

Subject: Data Structure

Session : 2017-2018

11/15

Ans

Que 1 What is Queue? Write the algorithm for insert and delete.

Ans 1 In computer science, a queue is a collection of entities that are maintained in a sequence and can be modified by the addition of entities at one end of the sequence and the removal of entities from the other end of the sequence.

Algorithm of Queue

1)

Insertion in a Queue Algorithm

To insert an element in a queue

Step 1. [Check overflow condition]
If rear ≥ size
Output "overflow" and return

Step 2. [Increment rear pointer]
rear = rear + 1

Name :— Manisha Soni

class :— B.Sc III Sem.(CS)

Subject :— Digital Electronics

2017-18

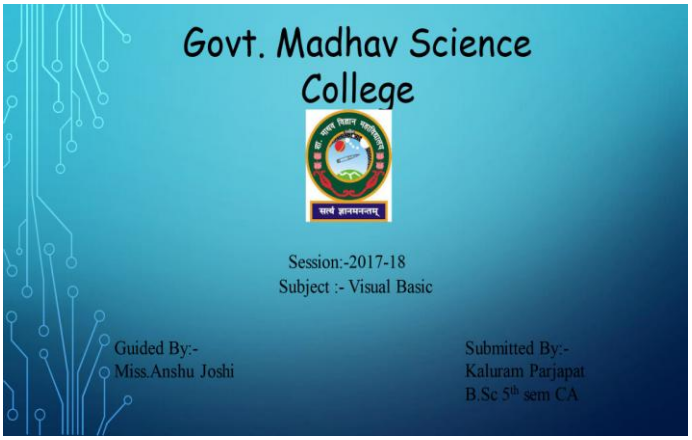
13/15

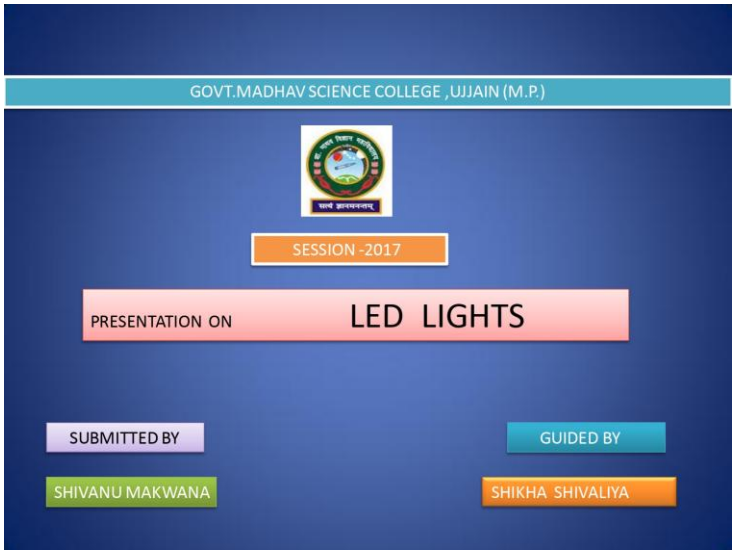
Write short note

1. ASCII ⇒ ASCII का पूरा नाम अमेरिकन स्टेण्डर्ड code for information interchange है। आरकी कम्प्यूटर मे text का प्रतिनिधित्व करने के लिए 7 बिट बाईनरी कोड का उपयोग करता है। आप जो हम कम्प्यूटर पर लिखते है। वह (ASCII) मे लिखा जाता है। (ASCII) कोड कम्प्यूटर मे तथा संचार उपकरण और टेक्सट का उपयोग करने वाले अन्य उपकरणो का प्रतिनिधित्व करता है। कम्प्यूटर पर इस्तेमाल किया जाने वाला सबसे सामान्य टेक्स्ट फाइल फार्मेट होती है।

2. EBCDIC ⇒ EDCDIC का पूरा नाम (Extended binary coded Decimal.

5th Sem





6th Sem

Govt. Madhav Science College

Session:-2017-18

Subject :- Programming with JAVA

Guided By:-
Mrs.Chanchala Joshi

Submitted By:-
Ashwini Muneshwar
B.Sc 6th sem CS

Govt. Madhav Science College

Session:-2017-18

Subject :- Programming with JAVA

Guided By:-
Mrs.Chanchala Joshi

Submitted By:-
Gopika Pawar
B.Sc 6th sem CS

Govt. Madhav Science College

Session:-2017-18

Subject :- Programming with JAVA

Guided By:-
Mr.Anil Prajapati

Submitted By:-
Sachin Choudhary
B.Sc 6th sem CA

Govt. Madhav Science College

Session:-2017-18

Subject :- Programming with JAVA

Guided By:-
Mr.Anil Prajapati

Submitted By:-
Manish Anjana
B.Sc 6th sem CA

2018-19

1st Year

(27)

Govt. Madhav Science P.G. College, Ujjain

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Question No.	Marks Obtained
1	05
2	10
3	19
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Total	34
Out of	50

Signature of Principal

Name : Harshita Nagwanshi

Father's Name : Ravindra Nagwanshi

Class : B.S.C (I-Year)

Section : G

Subject : Computer Science

Date of Examination : 01/02/19

Signature of Invigilator :

Signature of Valuer

Section - 'A'

Very short answer type questions :-

1.) What are constants ?

Ans These quantity whose values does not change during the program execution is known as constants. The values of constant is cannot be change or modified by the program. The constants can be classified into -

1.) Enumeration constant
2.) String constant
3.) Floating point constant
4.) Character constant.

2.) Write full form of EPROM and EEPROM.

Ans The full form of -

1.) EPROM :- Erasable programmable read only memory.
2.) EEPROM :- Electrically erasable programmable read only memory.

3.) What do you mean by algorithm ?

Ans An algorithm is a step - by - step process to solve any

10

Govt. Madhav Science P.G. College, Ujjain

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Department of Comp. Sc. & Appl.
Govt. Madhav Vigyan Mahavidyalaya
UJJAIN

Question No.	Marks Obtained
1	4
2	9
3	12
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Total	25
Out of	40

Signature of Principal

Name : अंकिता धाकड़

Father's Name : लालचन्द धाकड़

Class : B.Sc I year

Section : C2

Subject : Computer Application

Date of Examination : 01-2-2019

Signature of Invigilator :

Signature of Valuer

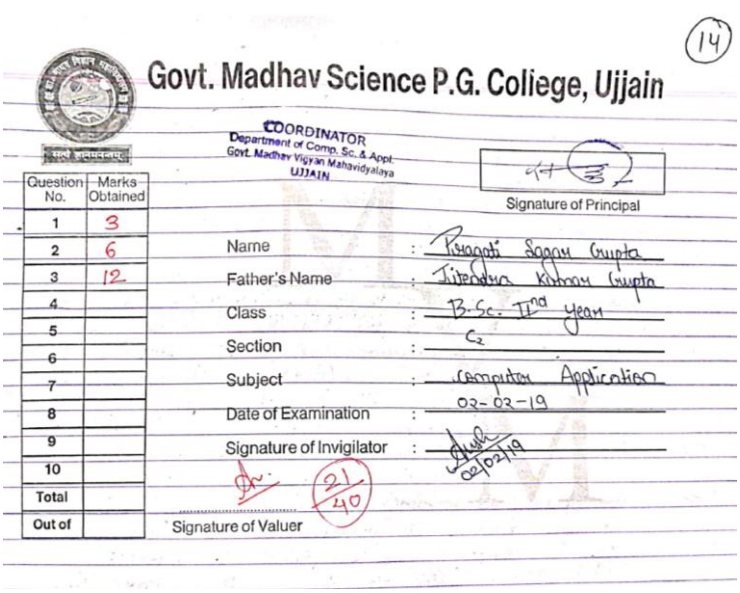
Section - A

1. CD ROM - CD ROM (CD Read only memory) डिस्क पर कार्य करते है तथा इससे हम किसी सूचना को को [illegible] के द्वारा प्राप्त किया जा सकता है। इसमें सूचनाओं को स्थायी रूप से संग्रहित किया जा सकता है। जिसे हम परिवर्तित नहीं करते है।

2. CUI → Character user Interface वह तकनीक है जो user, text mode से computer को निर्देश देता है तथा इसमें कमाण्डस याद रखने की आवश्यकता होती है। इसमें चित्र सम्बन्धित कार्य नहीं होते है तथा इसमें कमाण्ड याद रखना पड़ता है।

3. Explain animation and slide show :- किसी function के प्रयोग करने के लिए उसमें आने animation का कमाण्ड की जरूरत होती है। तभी कोसी function में animation होता है।

Signature Not Verified
ARPAN BHARDWAJ
E=ARPANBHARDWAJ11@GMAIL.COM,



Govt. Madhav Science P.G. College, Ujjain

(14)

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Signature of Principal

Question No.	Marks Obtained
1	3
2	6
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Name : Prayagti Sagar Gupta
Father's Name : Jitendra Kumar Gupta
Class : B.Sc. IInd year
Section : C2
Subject : Computer Application
Date of Examination : 02-02-19
Signature of Invigilator : 02/02/19

21/40

Signature of Valuer

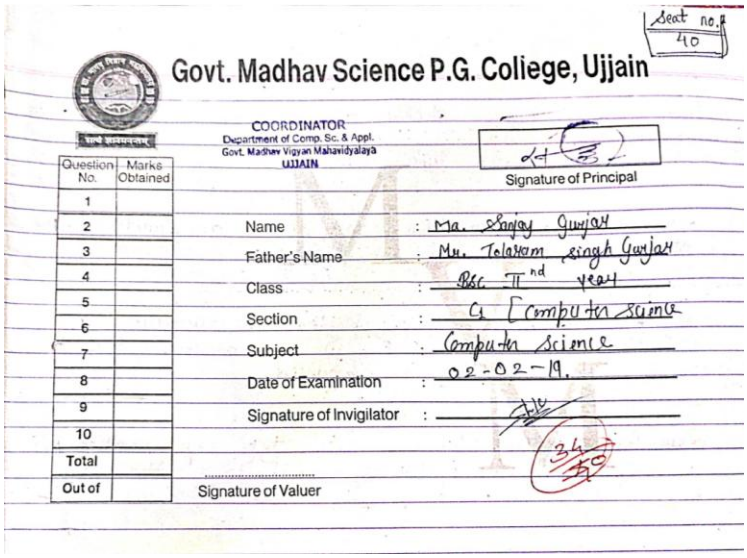
Section - B

6) What is Search engine ?

Ans> Search engine is a Site to Search all the information related to a given keywords. It easily search the word and open all the information related to this keyword, most of the common Search engines are Yahoo, Google, etc. It is called Search engine.

7) Define leased line ?

Ans> Leased line is a private bidirectional network over the internet. It is used in telephone, Internet and other data services. Its Speed is 64 kbps / S. Its Speed is faster as compare to Broadband. It is always active. It is digital in 1970's. It is better as compare to Broadband.



Govt. Madhav Science P.G. College, Ujjain

Seat no.
40

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Department of Comp. Sc. & Appl.
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UJJAIN

Signature of Principal

Question No.	Marks Obtained
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Name : Ms. Sanjay Gurjar
Father's Name : Mr. Tolaram singh Gurjar
Class : BSc IInd year
Section : C1 [Computer Science
Subject : Computer Science
Date of Examination : 02-02-19.
Signature of Invigilator :

34/50

Signature of Valuer

Section - A

(*) Very short answer type questions.

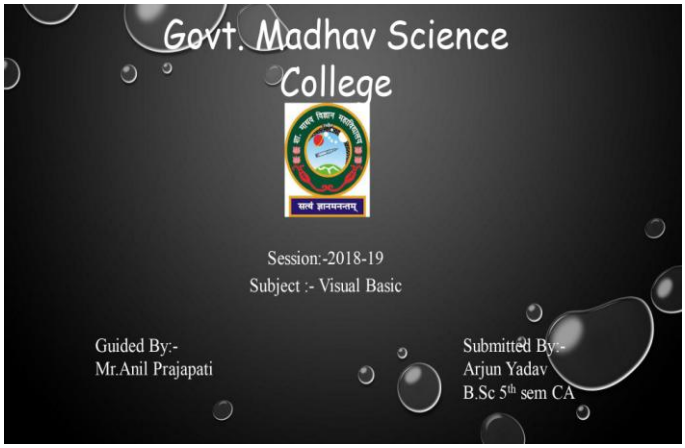
Ans=1. Recursion is a function that in which a function calls to itself in which it present.

Ans=2. In POP for a given problem an identifiers is constructed with the variable in such a way the the require result is produced.

Ans=3. Destructor => Destructor is a type of member function which deinitialize the object before it goes out of the scop.

Ans=4. ADT => The standard form of ADT is abstract data type. Abstract data types is the art of representing data without including back ground

5th Sem



6th Sem

Govt. Madhav Science College

Session:-2017-18

Subject :- Programming with JAVA

Guided By:-
Mr.Anil Prajapati

Submitted By:-
Mayank Sunhere
B.Sc 6th sem CS

Govt. Madhav Science College

Session:-2018-19

Subject :- Programming with JAVA

Guided By:-
Mr.Anil Prajapati

Submitted By:-
Nidhi Singh Chouhan
B.Sc 6th sem CS

Govt. Madhav Science College

Session:-2018-19

Subject :- Programming with JAVA

Guided By:-
Miss.Anshu Joshi

Submitted By:-
Sourabh Bhati
B.Sc. 6 th sem CA

Govt. Madhav Science College

Session:-2018-19

Subject :- Programming with JAVA

Guided By:-
Miss.Anshu Joshi

Submitted By:-
Shivani Chandel
B.Sc 6th sem CA

2019-20

1st Year

(47)

Govt. Madhav Science P.G. College, Ujjain

Question No.	Marks Obtained
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Total	
Out of	

Signature of Principal

Name : KHUSHBU Ved

Father's Name : Prahlad Ved

Class : B.S.C. Ist Year (C.S.)

Section : C1

Subject : Computer Science [C Programming]

Date of Examination : 04 - 02 - 2020

Signature of Invigilator :

Signature of Valuer

Question no - 1

ARRAY -

It is a type of program in which the statement will execute when the same data is evaluated. In which the statement will be executed with the help of ARRay. It is the type of program in which we give Data type of size of the student or other. In which we required a Data type of Variable to clarify the Array. In the way of program the Array is produced some data type is execute if some data type is not there if different data type will be found this is not an array statement or it will not executes.

Example of Array :-

Syntax :- Data type ; Variable [size] ;

int student [5] ;

0	0	0	0	0

(2)

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Question No.	Marks Obtained
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Signature of Principal

Name : Lokesh kumar Dhanger

Father's Name : Ramratan ji

Class : B.Sc I Year

Section : C2

Subject : Computer Application

Date of Examination : 18 November 2019

Signature of Invigilator :

Signature of Valuer

09/10

(9)

Section - A.

Q.01 Ans. Software is a set of programms which is interface between the user and Hardware. and a programms is a set of instruction by which we have to instruct a computer to what to do ?

There is two type of software

(i) System software

(ii) Application software.

(i) System software: It is software which basically for the system run. in the absence of system software the computer is not working properly.

(ii) Application software: It is software which is basically for the specific software. This software is used in various field. This software is of two type.

(i) commercial software

(ii) Non - commercial software.

Q.02. Ans. Output devices is device which give output in human understable form after processing. output devices are many type or in different way they have to give a output.

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सत्यं ज्ञानमनन्तम्

Question No.	Marks Obtained
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Signature of Principal

Name : Mayank Tripathi
Father's Name : Vishvendra Tripathi
Class : B.Sc IInd year
Section : C2 (Computer application-Maths-Physics)
Subject : Computer Application (CCE → I)
Date of Examination : 19-11-2019
Signature of Invigilator : Shiv

Signature of Valuer

Question-1) Explain Search Engine?

Ans. 1 It will not be exaggerated if we call internet is a ocean of information. If we want to fathom this ocean then it is impossible, so to overcome this problem some Software / programmes are designed to find information and directories on the internet this type of software are known as Search Engine. Search engine enables us to find a specific web page, file, image, document, graphics, games, music etc. on internet.

In other words search engine's are software that locates us the web page whose address are not known through specific sentences, phrases and questions.

There are several types of search engine's in the market which are following :-

(1) LYCOS :- Its URL is http://www.lycos.com/. It is a north american search engine with e-mail.

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सत्यं ज्ञानमनन्तम्

Question No.	Marks Obtained
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Signature of Principal

Name : Harshita Nagwanshi
Father's Name : Mr. Ravindra Nagwanshi
Class : B.S.C IInd Year.
Section : G (Computer Science - Physics - Maths)
Subject : Computer Science.
Date of Examination : 18/11/19
Signature of Invigilator :

Signature of Valuer

Ques 1) Explain keywords (or) Explain Data types.

Ques 2) Explain object and class (or) what is Encapsulation.

Ques 3) Explain For-loop with an example (or) Explain if else-statement with an example.

Ques 4) Explain formatted and unformatted input/output operations. (or) Explain predefined Streams in C++.

Ques 5) Explain operators and its types. (or) Explain advantages of OOPs.

Ques Explain Data types ?

Ans Data types usually defined a type of data a variable can hold. It holds the information about what type of data it has during a programe. Data types usually are of three types. —

1) Derived data-type.
2) Built-in data type.
3) User defined data type.

1) Derived data type — A derived data-type is a data-type.

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(6)

Question No.	Marks Obtained
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08/10

Signature of Principal

Name : Gawar Jatwa
Father's Name : Mangi Jatwa
Class : Bsc. III year
Section : C2
Subject : CA
Date of Examination : 12 Feb
Signature of Invigilator :

Signature of Valuer

Q3.

Google Analytics.

Google Analytic is a powerful free website traffic offered by Google. this is very useful in Digital marketing. Google Analytic is used to see traffic in websites. Google Analytics is useful for marketing because the shop website owner can see the traffic that how many people has visited the websites.

Q4:

Social Networking & Social Networking is done by Internet. Social Networking sites are used in many ways like chatting, marketing, and many useful thing. through social networking all people are connected to each other. The person can chats with

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Question No.	Marks Obtained
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Signature of Principal

Name : Nandini Patidar
Father's Name : Gopal Patidar
Class : B.Sc. IIIrd year
Section : C1
Subject : Computer Science
Date of Examination : 20/11/19
Signature of Invigilator :

Signature of Valuer

10/10

Ques-1 (or) write the advantages and application of DBMS?

Ans- Advantage of DBMS:-

1) DBMS Database reduces the data redundency (Duplication of data)
2) Sharing of data
3) Independence of data
4) Intrigrity can be easily maintained through Database
5) Conflicting requirement balanced through Database.
6) Ease of data access.
7) Ease of recovery

Application of DBMS:-

Application of DBMS in Organization:-

1) Marketing professional to analiys sale data.
2) Accounts
3) Operation manager to track and improve quantity.
4) Human resources manager to evaluate employee.
5) Finance analyst to analyse firm's performance.

Mathematics

S. No.	Class	Session	Paper name	Mode
1.	M.Sc.	2015-16	Mathematics	Assignment
2.	M.Sc.	2015-16	Mathematics	Assignment
3.	M.Sc.	2015-16	Mathematics	Assignment
4.	M.Sc.	2015-16	Mathematics	Assignment

S. No.	Class	Session	Paper name	Mode
1.	M.Sc.	2016-17	Mathematics	Assignment
2.	M.Sc.	2016-17	Mathematics	Assignment
3.	M.Sc.	2016-17	Mathematics	Assignment
4.	M.Sc.	2016-17	Mathematics	Assignment

S. No.	Class	Session	Paper name	Mode
1.	M.Sc.	2017-18	Mathematics	Assignment
2.	M.Sc.	2017-18	Mathematics	Assignment
3.	M.Sc.	2017-18	Mathematics	Assignment
4.	M.Sc.	2017-18	Mathematics	Assignment

S. No.	Class	Session	Paper name	Mode
1.	M.Sc.	2018-19	Mathematics	Assignment
2.	M.Sc.	2018-19	Mathematics	Assignment
3.	M.Sc.	2018-19	Mathematics	Assignment
4.	M.Sc.	2018-19	Mathematics	Assignment

S. No.	Class	Session	Paper name	Mode
1.	M.Sc.	2019-20	Mathematics	Assignment
2.	M.Sc.	2019-20	Mathematics	Assignment
3.	M.Sc.	2019-20	Mathematics	Assignment
4.	M.Sc.	2019-20	Mathematics	Assignment

CCE
Economics

Sr. No.	Classes	Session	CCE Mode
1	B.Sc. I sem.	2015-16	ASSIGNMENT
2	B.Sc. III sem.		ASSIGNMENT
3	**B.Sc. V sem.**		ASSIGNMENT
4	**B.Sc. II sem.**		ASSIGNMENT
5	**B.Sc. IV sem.**		ASSIGNMENT
6	**B.Sc. VI sem.**		ASSIGNMENT

Sr. No.	Classes	Session	CCE Mode
1	**B.Sc. II sem.**	2016-17	**Subjective long test**
2	**B.Sc. IV sem.**		ASSIGNMENT

Sr. No.	Classes	Session	CCE Mode
1	**B.Sc. I YEAR.**	2017-18	ASSIGNMENT

Sr. No.	Classes	Session	CCE Mode
1	**B.Sc. I YEAR.**	2018-19	ASSIGNMENT

Sr. No.	Classes	Session	CCE Mode
1	**B.Sc. I YEAR.**	2019-20	ASSIGNMENT
2	**B.Sc. II YEAR**		ASSIGNMENT
3	**B.Sc. III YEAR**		ASSIGNMENT

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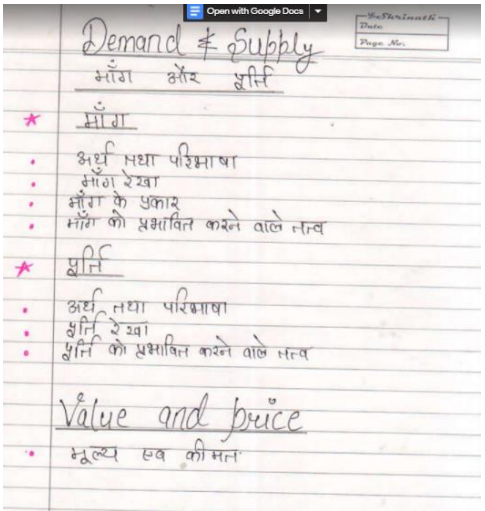
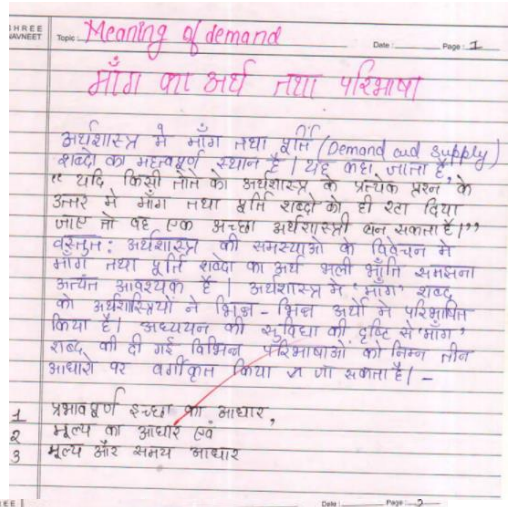
B.Sc. I sem.
Mode: ASSIGNMENT
Session: 2015-16


Demand & Supply
माँग और पूर्ति

★ माँग
- अर्थ तथा परिभाषा
- माँग रेखा
- माँग के प्रकार
- माँग को प्रभावित करने वाले तत्व

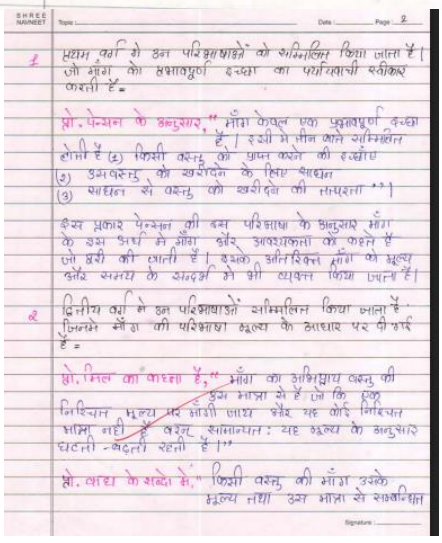
★ पूर्ति
- अर्थ तथा परिभाषा
- पूर्ति रेखा
- पूर्ति को प्रभावित करने वाले तत्व

Value and price
- मूल्य एवं कीमत


Meaning of demand
माँग का अर्थ तथा परिभाषा

अर्थशास्त्र में माँग तथा पूर्ति (Demand and Supply) शब्दों का महत्वपूर्ण स्थान है। यह कहा जाता है कि यदि किसी तोते को अर्थशास्त्र के प्रत्येक प्रश्न के उत्तर में माँग तथा पूर्ति शब्दों को ही रटा दिया जाए तो वह एक अच्छा अर्थशास्त्री बन सकता है।"
वस्तुतः अर्थशास्त्र की समस्याओं के विवेचन में माँग तथा पूर्ति शब्दों का अर्थ भली भाँति समझना अत्यंत आवश्यक है। अर्थशास्त्र में 'माँग' शब्द को अर्थशास्त्रियों ने भिन्न-भिन्न अर्थों में परिभाषित किया है। अध्ययन की सुविधा की दृष्टि से 'माँग' शब्द की दी गई विभिन्न परिभाषाओं को निम्न तीन आधारों पर वर्गीकृत किया जा सकता है। -

1 प्रभावपूर्ण इच्छा का आधार,
2 मूल्य का आधार एवं
3 मूल्य और समय आधार


1 प्रथम वर्ग में उन परिभाषाओं को सम्मिलित किया जाता है जो माँग को प्रभावपूर्ण इच्छा का पर्यायवाची स्वीकार करती हैं -

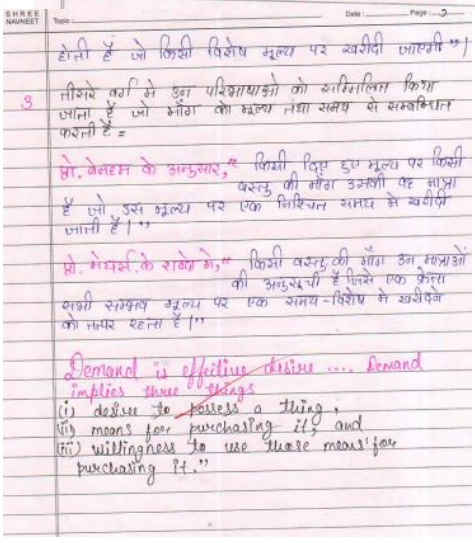
प्रो. पेन्सन के अनुसार, "माँग केवल एक प्रभावपूर्ण इच्छा है। इसी में तीन बातें सम्मिलित होती हैं (1) किसी वस्तु को प्राप्त करने की इच्छा (2) उस वस्तु को खरीदने के लिए साधन (3) साधन से वस्तु को खरीदने की तत्परता"।

इस प्रकार पेन्सन की इस परिभाषा के अनुसार माँग के उस अर्थ में माँग और आवश्यकता को कहते हैं जो पूरी की जाती है। इसके अतिरिक्त माँग के मूल्य और समय के सम्बन्ध में भी व्यक्त किया जाता है।

2 द्वितीय वर्ग में उन परिभाषाओं सम्मिलित किया जाता है जिनमें माँग की परिभाषा मूल्य के आधार पर की गई है -

प्रो. मिल का कहना है, "माँग का अभिप्राय वस्तु की इस मात्रा से है जो कि एक निश्चित मूल्य पर बेची जाए जबकि यह कोई निश्चित मात्रा नहीं है वरन् सामान्यतः यह मूल्य के अनुसार घटती-बढ़ती रहती है।"

प्रो. मार्शल के शब्दों में, "किसी वस्तु की माँग उसके मूल्य नहीं उस मात्रा से सम्बन्धित


होती है जो किसी विशेष मूल्य पर खरीदी जाएगी"।

3 तीसरे वर्ग में उन परिभाषाओं को सम्मिलित किया जाता है जो माँग को मूल्य तथा समय से सम्बन्धित करती हैं -

प्रो. बेनहम के अनुसार, "किसी दिए हुए मूल्य पर किसी वस्तु की माँग उसकी वह मात्रा है जो उस मूल्य पर एक निश्चित समय में खरीदी जाती है।"

प्रो. मेयर्स के शब्दों में, "किसी वस्तु की माँग उन मात्राओं की अनुसूची है जिसमें एक क्रेता सभी सम्भव मूल्य पर एक समय-विशेष में खरीदने को तत्पर रहता है।"

Demand is effective desire .... Demand implies three things
(i) desire to possess a thing,
(ii) means for purchasing it, and
(iii) willingness to use these means for purchasing it."

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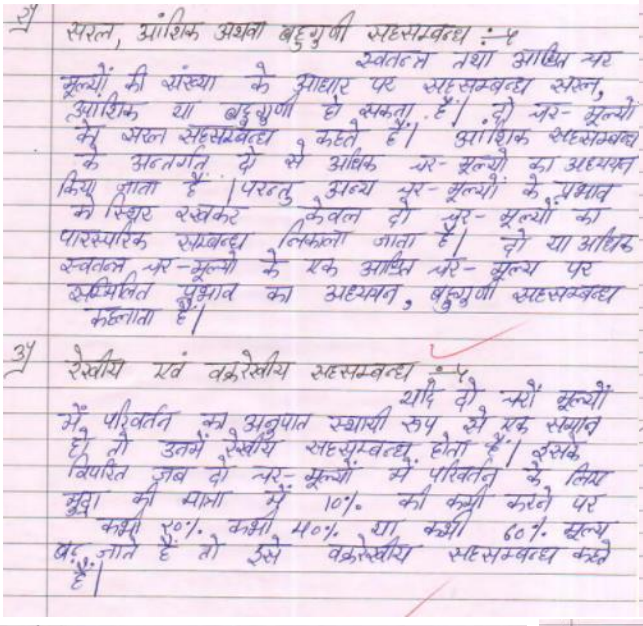
B.Sc. IV sem.
Mode: ASSIGNMENT
Session: 2016-17



सरल, आंशिक अथवा बहुगुणी सहसम्बन्ध :-
स्वतन्त्र तथा आश्रित चर मूल्यों की संख्या के आधार पर सहसम्बन्ध सरल, आंशिक या बहुगुणी हो सकता है। दो चर- मूल्यों में अल सहसम्बन्ध कहते हैं। आंशिक सहसम्बन्ध के अन्तर्गत दो से अधिक चर- मूल्यों का अध्ययन किया जाता है। परन्तु अन्य चर- मूल्यों के प्रभाव को स्थिर रखकर केवल दो चर- मूल्यों का पारस्परिक सम्बन्ध निकाला जाता है। दो या अधिक स्वतन्त्र चर-मूल्यों के एक आश्रित चर- मूल्य पर सम्मिलित प्रभाव का अध्ययन, बहुगुणी सहसम्बन्ध कहलाता है।

रैखीय एवं वक्ररेखीय सहसम्बन्ध :-
यदि दो चरों मूल्यों में परिवर्तन का अनुपात स्थायी रूप से एक समान रहे तो उनमें रैखीय सहसम्बन्ध होता है। इसके विपरीत जब दो चर- मूल्यों में परिवर्तन के लिए मुद्रा की मात्रा में 10% की कमी करने पर कभी 20%, कभी 40% या कभी 60% मूल्य बढ़ जाते हैं तो इसे वक्ररेखीय सहसम्बन्ध कहते हैं।

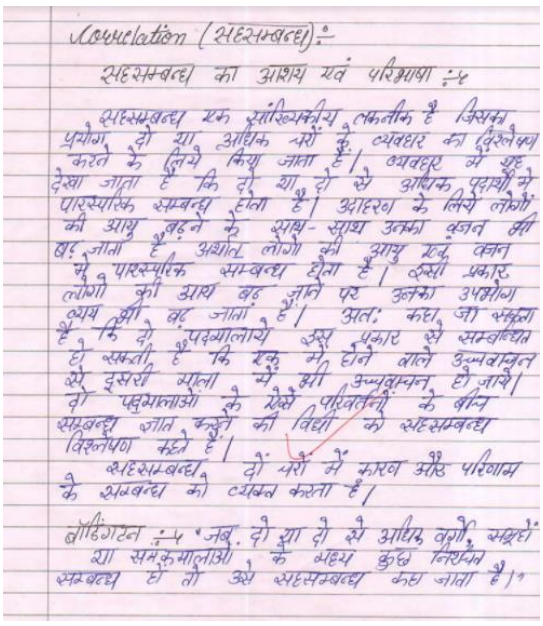
किंग :- "सहसम्बन्ध से आशय दो परिमाणों या समंकों के समूहों के मध्य कार्यकारण सम्बन्ध होने से है।"

प्रो. एल. आर. कॉनर :- "यदि दो या अधिक राशियाँ अनुपात में इस प्रकार परिवर्तित होती हैं कि उनमें से एक में होने वाले परिवर्तनों के फलस्वरूप दूसरी राशि में भी परिवर्तन होने की प्रवृत्ति पायी जाये तो वे राशियाँ सहसम्बन्धित कहलाती हैं।"

सहसम्बन्ध के प्रकार

सम्बन्धित चरों के बीच परिवर्तनों की दिशा और अनुपात के आधार पर सहसम्बन्ध के निम्नलिखित प्रकार हो सकते हैं-

धनात्मक अथवा ऋणात्मक सहसम्बन्ध :- जब दो समंक श्रेणियों में परिवर्तन की दिशा एक ही हो तो वहाँ धनात्मक सहसम्बन्ध होता है। उदाहरण के लिये वस्तु के मूल्य में वृद्धि होने पर उसकी पूर्ति में वृद्धि होती। इसके विपरीत, जब दो समंक श्रेणियों में परिवर्तन की विपरीतता हो तो वहाँ ऋणात्मक सहसम्बन्ध होता है। उदाहरण के लिये वस्तु के मूल्य में वृद्धि होने पर उसकी माँग में कमी होगी।



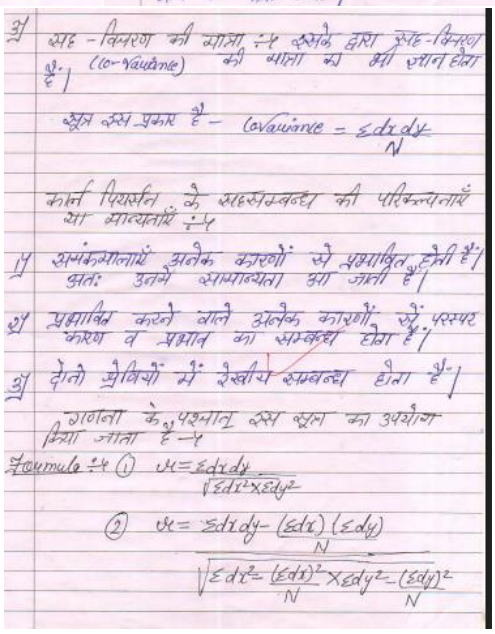
Correlation (सहसम्बन्ध):-

सहसम्बन्ध का आशय एवं परिभाषा :-

सहसम्बन्ध एक सांख्यिकीय तकनीक है जिसका प्रयोग दो या अधिक चरों के व्यवहार का विश्लेषण करने के लिये किया जाता है। व्यवहार में यह देखा जाता है कि दो या दो से अधिक पहलुओं में पारस्परिक सम्बन्ध होता है। उदाहरण के लिये लोगों की आयु बढ़ने के साथ-साथ उनका वजन भी बढ़ जाता है अर्थात् लोगों की आयु एवं वजन में पारस्परिक सम्बन्ध होता है। इसी प्रकार लोगों की आय बढ़ जाने पर उनका उपभोग व्यय भी बढ़ जाता है। अतः कहा जा सकता है कि दो पहलुओं में इस प्रकार से सम्बन्धित हो सकती है कि एक में होने वाले उच्चावचन से दूसरी मात्रा में भी उच्चावचन हो जाये। दो पहलुओं के ऐसे परिवर्तनों के बीच सम्बन्ध ज्ञात करने की विधि को सहसम्बन्ध विश्लेषण कहते हैं।

सहसम्बन्ध दो चरों में कारण और परिणाम के सम्बन्ध को व्यक्त करता है।

बोडिंगटन :- "जब दो या दो से अधिक वर्गों, समूहों या समंकमालाओं के मध्य कुछ नियमित सम्बन्ध हो तो उसे सहसम्बन्ध कहा जाता है।"



सह-विचरण की मात्रा :- इसके द्वारा सह-विचरण (Co-Variance) की मात्रा का भी ज्ञान होता है।

सूत्र इस प्रकार है- $Covariance = \frac{\Sigma dx\,dy}{N}$

कार्ल पियर्सन के सहसम्बन्ध की परिकल्पनाएँ या मान्यताएँ :-

1) समंकमालाएँ अनेक कारणों से प्रभावित होती हैं। अतः उनमें सामान्यता पायी जाती है।
2) प्रभावित करने वाले अनेक कारणों में परस्पर कारण व प्रभाव का सम्बन्ध होता है।
3) दोनों श्रेणियों में रैखीय सम्बन्ध होता है।

गणना के पश्चात् इस सूत्र का उपयोग किया जाता है :-

Formula :- ① $r = \frac{\Sigma dx\,dy}{\sqrt{\Sigma dx^2 \times \Sigma dy^2}}$

② $r = \frac{\Sigma dx\,dy - \frac{(\Sigma dx)(\Sigma dy)}{N}}{\sqrt{\Sigma dx^2 - \frac{(\Sigma dx)^2}{N} \times \Sigma dy^2 - \frac{(\Sigma dy)^2}{N}}}$

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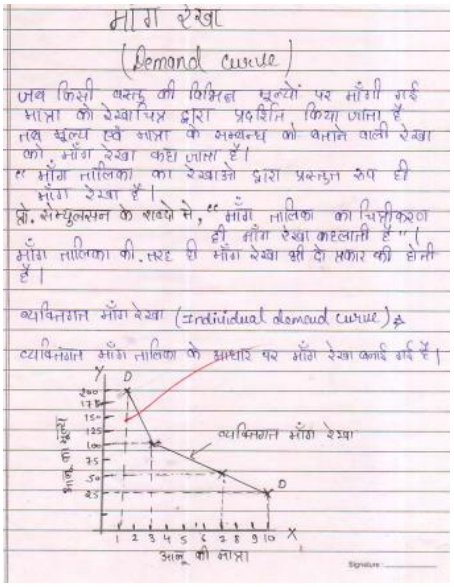

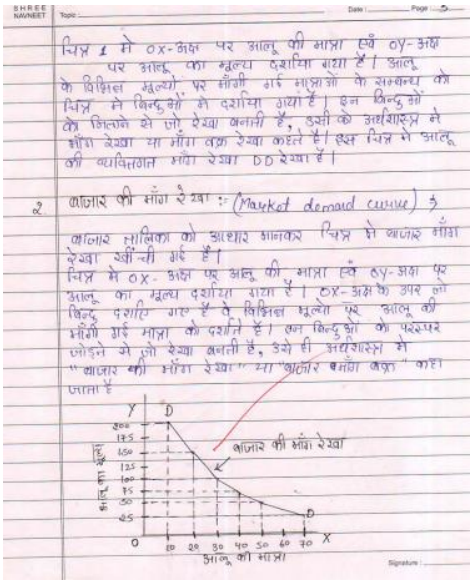

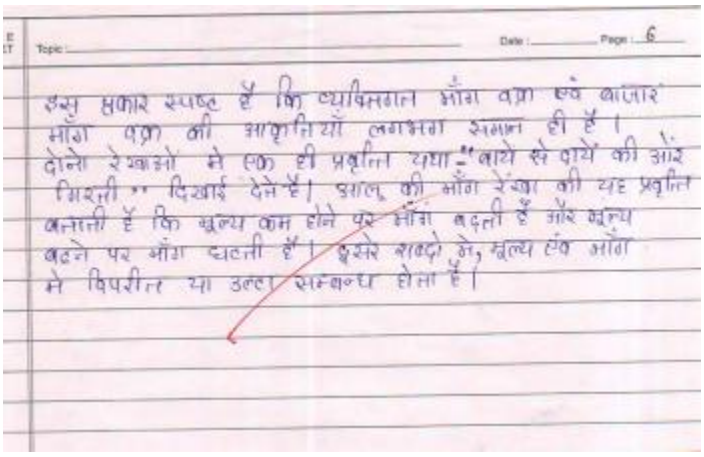

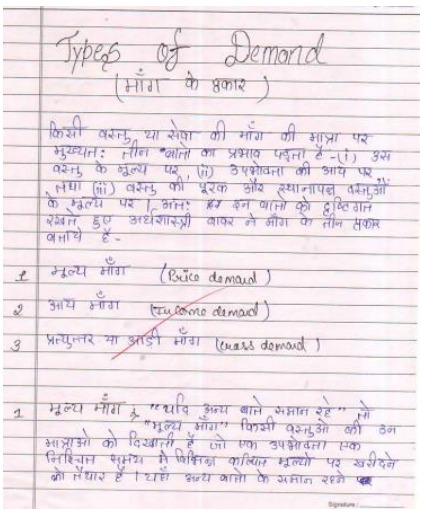

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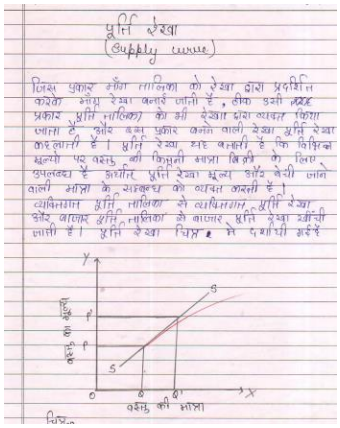
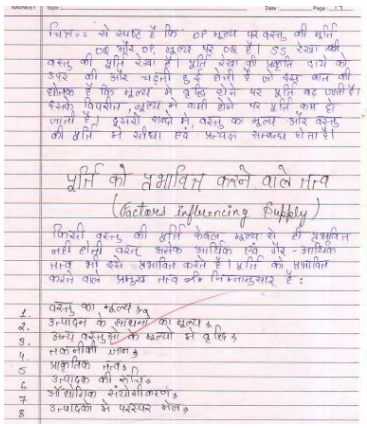

पूर्ति रेखा
(Supply curve)

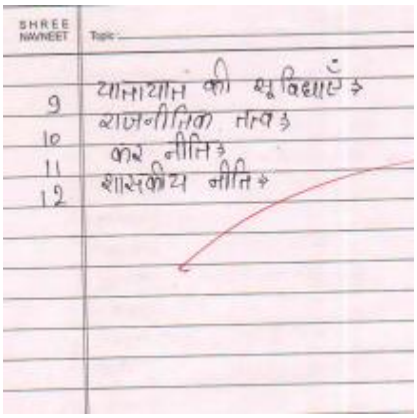
जिस प्रकार माँग तालिका को रेखा द्वारा प्रदर्शित करते हैं उसी प्रकार पूर्ति तालिका को भी रेखा द्वारा व्यक्त किया जाता है और इस प्रकार बनने वाली रेखा पूर्ति रेखा कहलाती है। पूर्ति रेखा यह बताती है कि विभिन्न मूल्यों पर वस्तु की कितनी मात्रा बिक्री के लिए उपलब्ध है अर्थात् पूर्ति रेखा मूल्य और बेची जाने वाली मात्रा के सम्बन्ध को व्यक्त करती है।
व्यक्तिगत पूर्ति तालिका से व्यक्तिगत पूर्ति रेखा और बाजार पूर्ति तालिका से बाजार पूर्ति रेखा खींची जाती है। पूर्ति रेखा चित्र 8 में दर्शायी गई है

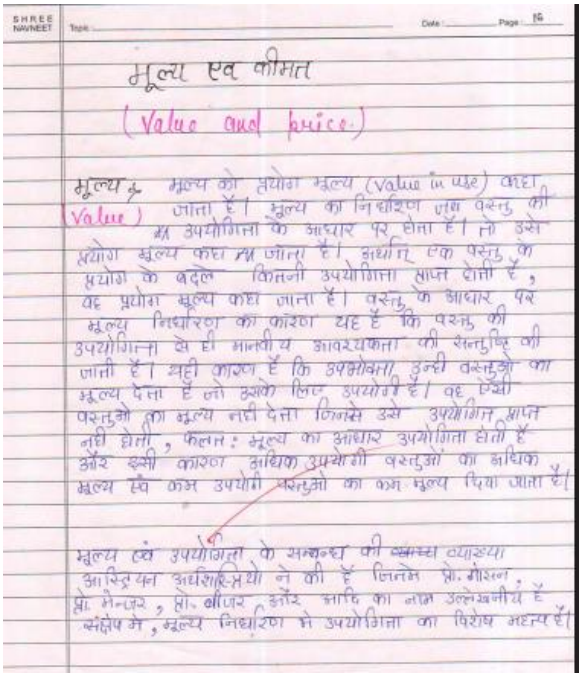

चित्र 8 से स्पष्ट है कि OP मूल्य पर वस्तु की पूर्ति OQ और OR मूल्य पर OS है। इस रेखा की वस्तु की पूर्ति रेखा है। पूर्ति रेखा की प्रकृति दायें को ऊपर की ओर चढ़ती हुई होती है जो इस बात की द्योतक है कि मूल्य में वृद्धि होने पर पूर्ति बढ़ जाती है। इसके विपरीत, मूल्य में गिरावट होने पर पूर्ति कम हो जाती है। दूसरे शब्दों में, वस्तु का मूल्य और वस्तु की पूर्ति में सीधा एवं प्रत्यक्ष सम्बन्ध होता है।

पूर्ति को प्रभावित करने वाले तत्व
(Factors Influencing Supply)

किसी वस्तु की पूर्ति केवल मूल्य से ही प्रभावित नहीं होती वरन् अनेक आर्थिक एवं अर्द्ध-आर्थिक तत्व भी वहाँ प्रभावित करते हैं। पूर्ति को प्रभावित करने वाले प्रमुख तत्व निम्नलिखित हैं:

1. वस्तु का मूल्य।
2. उत्पादन के साधनों का मूल्य।
3. अन्य वस्तुओं के मूल्यों में वृद्धि।
4. सरकारी नीति।
5. प्राकृतिक तत्व।
6. उत्पादक की रुचि।
7. तकनीकी संशोधनीकरण।
8. उत्पादकों में परस्पर होड़।


9 यातायात की सुविधाएँ।
10 राजनीतिक तत्व।
11 कर नीति।
12 शासकीय नीति।


मूल्य एवं कीमत
(Value and price)

मूल्य:- मूल्य को प्रयोग मूल्य (Value in use) कहा (Value) जाता है। मूल्य का निर्धारण उस वस्तु की उपयोगिता के आधार पर होता है। तो उसे प्रयोग मूल्य कहा जाता है। अर्थात् एक वस्तु के प्रयोग के बदले जितनी उपयोगिता प्राप्त होती है, वह प्रयोग मूल्य कहा जाता है। वस्तु के आधार पर मूल्य निर्धारण का कारण यह है कि वस्तु की उपयोगिता से ही मानवीय आवश्यकता की सन्तुष्टि की जाती है। यही कारण है कि उपभोक्ता उन्हीं वस्तुओं का मूल्य देता है जो उसके लिए उपयोगी है। वह ऐसी वस्तुओं का मूल्य नहीं देता जिनसे उसे उपयोगिता प्राप्त नहीं होती, फलतः मूल्य का आधार उपयोगिता होती है और इसी कारण अधिक उपयोगी वस्तुओं का अधिक मूल्य एवं कम उपयोगी वस्तुओं का कम मूल्य दिया जाता है।

मूल्य एवं उपयोगिता के सम्बन्ध की व्यवस्था व्याख्या ऑस्ट्रिया अर्थशास्त्रियों ने की है जिनमें प्रो. गोसन, प्रो. मेन्जर, प्रो. वीजर और आदि का नाम उल्लेखनीय है संक्षेप में, मूल्य निर्धारण में उपयोगिता का विशेष महत्व है।

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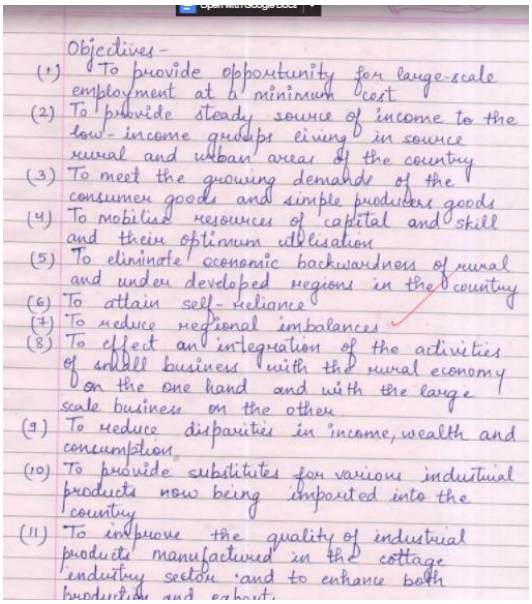
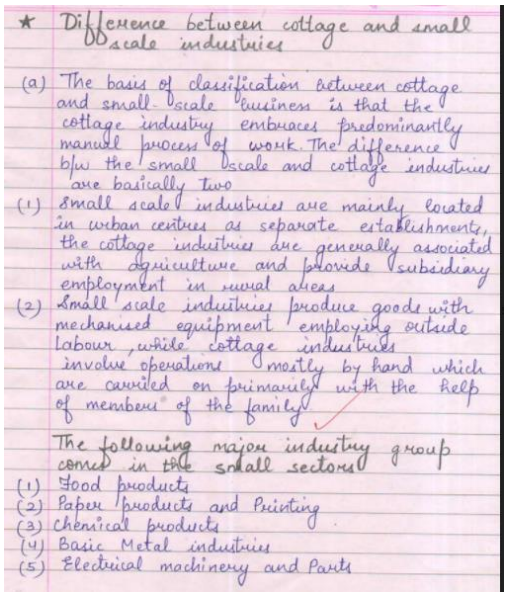


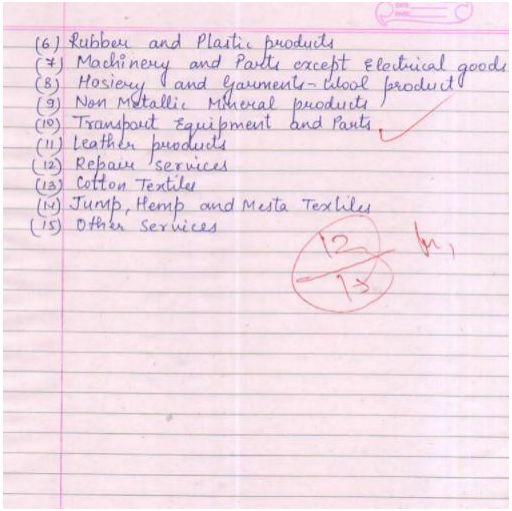
Objectives -
(1) To provide opportunity for large-scale employment at a minimum cost
(2) To provide steady source of income to the low-income groups living in source rural and urban areas of the country
(3) To meet the growing demands of the consumer goods and simple producers goods
(4) To mobilise resources of capital and skill and their optimum utilisation
(5) To eliminate economic backwardness of rural and under developed regions in the country
(6) To attain self-reliance
(7) To reduce regional imbalances
(8) To effect an integration of the activities of small business with the rural economy on the one hand and with the large scale business on the other
(9) To reduce disparities in income, wealth and consumption
(10) To provide substitutes for various industrial products now being imported into the country
(11) To improve the quality of industrial products manufactured in the cottage industry sector and to enhance both



★ Difference between cottage and small scale industries

(a) The basis of classification between cottage and small-scale business is that the cottage industry embraces predominantly manual process of work. The difference b/w the small scale and cottage industries are basically two
(1) Small scale industries are mainly located in urban centres as separate establishments, the cottage industries are generally associated with agriculture and provide subsidiary employment in rural areas
(2) Small scale industries produce goods with mechanised equipment employing outside labour, while cottage industries involve operations mostly by hand which are carried on primarily with the help of members of the family

The following major industry group comes in the small sectors
(1) Food products
(2) Paper products and Printing
(3) Chemical products
(4) Basic Metal industries
(5) Electrical machinery and Parts



(6) Rubber and Plastic products
(7) Machinery and Parts except Electrical goods
(8) Hosiery and Garments - Wool product
(9) Non Metallic Mineral products
(10) Transport Equipment and Parts
(11) Leather products
(12) Repair services
(13) Cotton Textiles
(14) Jump, Hemp and Mesta Textiles
(15) Other Services

12
13

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Govt. Madhav Science College

2015-2016

B.Sc. VI Sem

Economics Assignment

Submitted By - Arun Upadhyay

Date - 24 FEB 2016

Submitted To - Rajkumar Neema

Page No.

केन्द्रीय प्रवृति के माप

सांख्यिकीय सामग्री का वर्गीकरण, सारणीयन व सम्पादन करने के पश्चात मुख्य समस्या इन समंको के द्वारा वांछित निष्कर्ष निकालने की होती है। ये क्रियाएं समंको को सरल व बुद्धिगम्य बनाने के लिए की जाती है, परन्तु यह केवल प्रारंभिक अवस्थाएँ है जिनसे सांख्यिकीय सामग्री की सभी विशेषताएं स्पष्ट नहीं होती है। अतः इन समंको की विशेषताओं को कम-से कम-अंको मे सारांश रूप से प्रकट करने के लिए केन्द्रीय प्रवृति के माप या सांख्यिकीय माध्यो का परिकलन करना पड़ता है।

केन्द्रीय प्रवृति के माप या सांख्यिकीय माध्य की परिभाषा:-

क्राक्सटन एवं काउडन के अनुसार

माध्य समंको के विस्तार के अन्तर्गत स्थित एक ऐसा माध्य समंको के विस्तार के अन्तर्गत स्थित एक ऐसा मूल्य है जिसका प्रयोग श्रेणी के सभी मूल्यो का प्रतिनिधित्व करने के लिए किया जाता है। समंक श्रेणी के विस्तार के अन्तर्गत स्थित होने के कारण माध्य को केन्द्रीय मूल्य का माप भी कहा जाता है।

केन्द्रीय प्रवृति के माप या सांख्यिकीय माध्य के कार्य :- केन्द्रीय प्रवृति के माप के उद्देश्य कार्य निम्न है,

(II) स्थिति सम्बन्धी माध्य
(1) बहुलक या भूयिष्ठक
(2) मध्यका
(3) विभाजन मूल्य

अंकगणितीय माध्य निकालने की रीतियाँ

A व्यक्तिगत श्रेणी :- व्यक्तिगत श्रेणी का अंकगणितीय माध्य प्रत्यक्ष अथवा लघु रीति द्वारा ज्ञात किया जा सकता है।

1) प्रत्यक्ष रीति :- यदि व्यक्तिगत श्रेणी मे $m_1, m_2, m_3, m_4 \ldots m_n$ विभिन्न पदो के मूल्य है।

अंकगणितीय माध्य :-

$$a = \frac{m_1 + m_2 + m_3 + m_4}{N}$$

अथवा $a = \frac{\Sigma m}{N}$ होगा

यहाँ पर,

a = अंकगणितीय माध्य

Σm = पदो के मूल्यो का योग

N = पदो की संख्या के संकेताक्षर है।

लघु रीति :- लघु रीति इस तथ्य पर आधारित है कि वास्तविक माध्य से विभिन्न पद रीति से अंकगणितीय माध्य निकालने की प्रक्रिया निम्न है,

1) किसी भी संख्या को श्रेणी का कल्पित माध्य मान लिया जाता है, चाहे यह संख्या श्रेणी के बाहर की क्यों न हो परन्तु श्रेणी की ही कोई ऐसी संख्या जिसका मूल्य लगभग मध्य में हो तो कल्पित माध्य मानने से गणना प्रक्रिया सरल हो जाती है।

2) विचलनो का योग किया जाता है।

3) विचलनो के योग मे पदो की संख्या का भाग देकर जो मूल्य प्राप्त होता है। उसे कल्पित माध्य में समायोजन करने पर वास्तविक माध्य ज्ञात हो जाता है।

सूत्र के अनुसार

$$a = X + \frac{\Sigma dx}{N}$$

यहाँ पर

a = अंकगणितीय माध्य

X = कल्पित माध्य

Σdx = विचलनो का योग

N = पदो की संख्या

उदा. 1 किसी फर्म के 10 कर्मचारियो का एक दिन का वेतन निम्न सारणी मे दिया गया है प्रत्यक्ष व लघु रीति द्वारा अंकगणितीय माध्य ज्ञात कीजिए :

कर्मचारी : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

एक दिन का वेतन, 44, 48, 31, 65, 57, 60, 37, 48, 78, 60

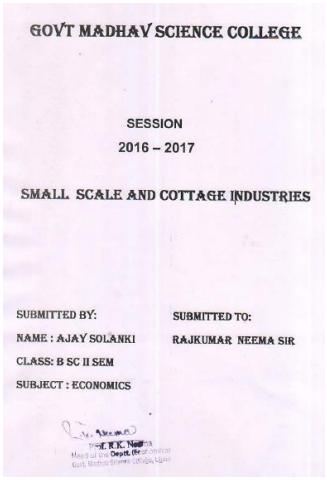
प्रत्यक्ष रीति द्वारा

कर्मचारी (क्रम संख्या)	एक दिन का वेतन (रु.)
1	44
2	48
3	31
4	65
5	57
6	60
7	37
8	48
9	78
10	60
कुल वेतन (Σm)	528

OFFICE OF THE PRINCIPAL GOVT. MADHAV SCIENCE P.G. COLLEGE UJJAIN M.P.

A GRADE ACCREDITED THROUGH NAAC
DST-FIST COLLEGE

B.Sc. II sem.
Mode: Subjective long test
Session: 2016-17



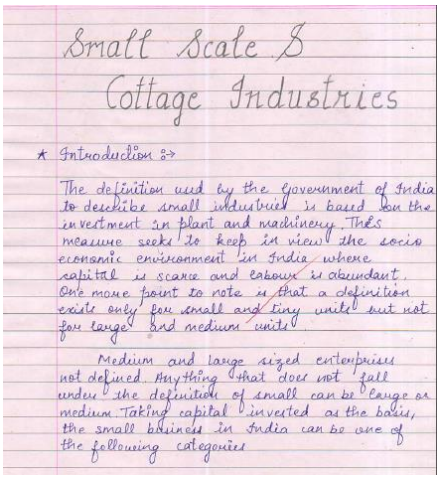
GOVT MADHAV SCIENCE COLLEGE

SESSION
2016 – 2017

SMALL SCALE AND COTTAGE INDUSTRIES

SUBMITTED BY:
NAME : AJAY SOLANKI
CLASS: B SC II SEM
SUBJECT : ECONOMICS

SUBMITTED TO:
RAJKUMAR NEEMA SIR

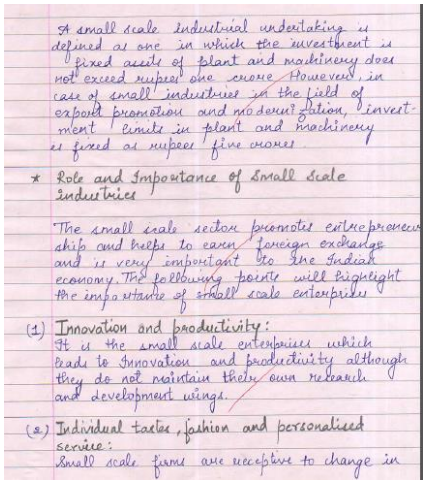


Small Scale & Cottage Industries

★ Introduction :-

The definition used by the Government of India to describe small industries is based on the investment in plant and machinery. This measure seeks to keep in view the socio economic environment in India where capital is scarce and labour is abundant. One more point to note is that a definition exists only for small and tiny units but not for large and medium units.

Medium and large sized enterprises not defined. Anything that does not fall under the definition of small can be large or medium. Taking capital invested as the basis, the small business in India can be one of the following categories



A small scale industrial undertaking is defined as one in which the investment in fixed assets of plant and machinery does not exceed rupees one crore. However, in case of small industries in the field of export promotion and modernization, investment limits in plant and machinery is fixed at rupees five crores.

★ Role and Importance of Small Scale Industries

The small scale sector promotes entrepreneurship and helps to earn foreign exchange and is very important to the Indian economy. The following points will highlight the importance of small scale enterprises

(1) Innovation and productivity:
It is the small scale enterprises which leads to innovation and productivity although they do not maintain their own research and development wings.

(2) Individual tastes, fashion and personalized service:
Small scale firms are receptive to change in taste and fashions of consumers and in adjusting the production process accordingly

(3) Symbols of national identity -
They are locally owned and controlled. They can strengthen the social system and cultural traditions of India. They are perceived as valuable symbols of national identity

(4) Tendency of dispersal over wide area -
Small scale enterprises have a tendency to disperse over wide areas. More than 62.4% of the units are located in the backward areas

★ Features of Cottage Industries -

Cottage industries are also known as rural industries or traditional industries. They are not defined by capital investment criteria as in the case of other small scale industries. However, cottage industries are characterised by certain features as follows.

(1) These are organised by individuals, with private resources.
(2) It normally use family labour and locally available Talent
(3) The equipment used in simple manner.
(4) Capital investment is small
(5) It produces simple products, normally in their own premises
(6) It produces the goods using indigeneous technology

★ Characteristics and objectives of Small Scale industries

Characteristics
Any small business is characterised by at least two of the following key features

(1) Management is independent. Usually the managers are also owners.
(2) Capital is supplied and ownership is held by an individual or a small group.
(3) The area of operations is mainly local. Workers and owners are of one home community. Markets need not be local
(4) Relative Size within the industry the business is small when compared to the biggest units in its field. The size of the top bracket varies greatly, so that what might seem large in one field would be definitely small in another.

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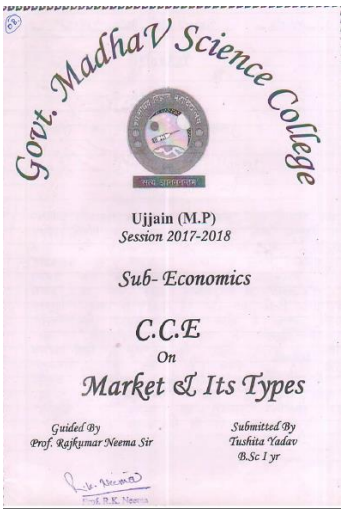
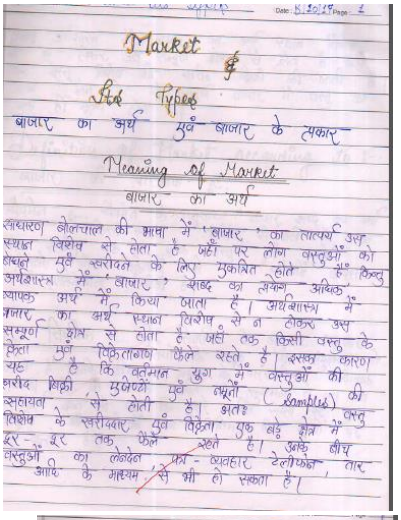
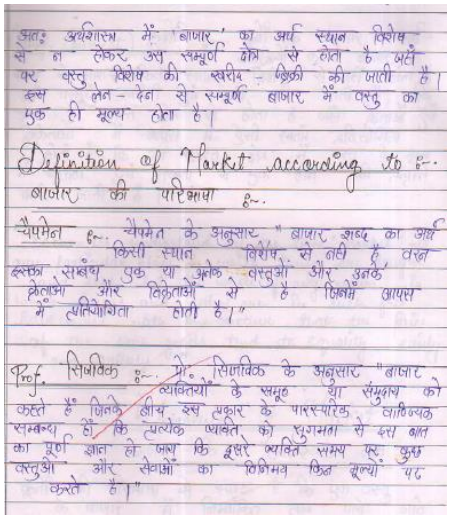
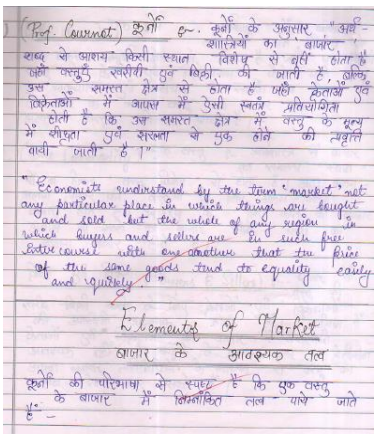
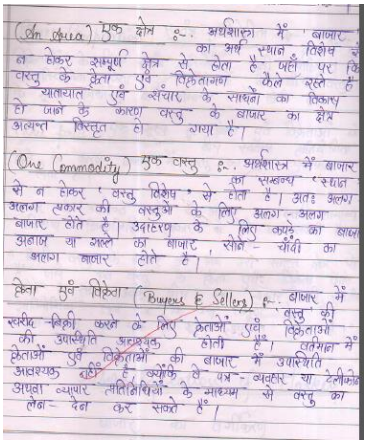
B.Sc. I YEAR.
Mode: ASSIGNMENT
Session: 2017-18

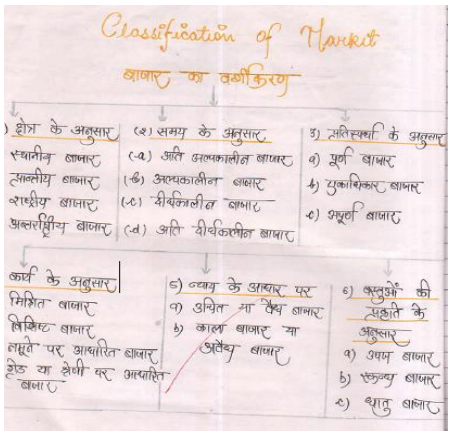

Govt. Madhav Science College
Ujjain (M.P)
Session 2017-2018
Sub- Economics
C.C.E
On
Market & Its Types
Guided By
Prof. Rajkumar Neema Sir
Submitted By
Tushita Yadav
B.Sc I yr


Market
&
Its Types
बाजार का अर्थ एवं बाजार के प्रकार
Meaning of Market
बाजार का अर्थ


Definition of Market according to :-
बाजार की परिभाषा :-


Elements of Market
बाजार के आवश्यक तत्व


(One Commodity) एक वस्तु :-
(Buyers & Sellers) :-


Classification of Market
बाजार का वर्गीकरण

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A GRADE ACCREDITED THROUGH NAAC
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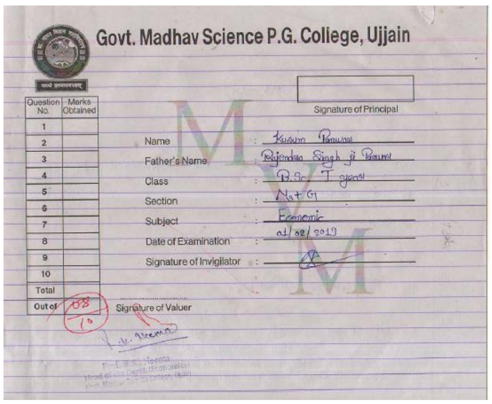
B.Sc. VI sem.

Mode:

Session: 2018-19



Govt. Madhav Science P.G. College, Ujjain

Question No.	Marks Obtained
1	
2	
3	
4	
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6	
7	
8	
9	
10	
Total	
Out of	08/10

Signature of Principal

Name : Kusum Panwar

Father's Name : Rajendra Singh ji Panwar

Class : B.Sc. I year

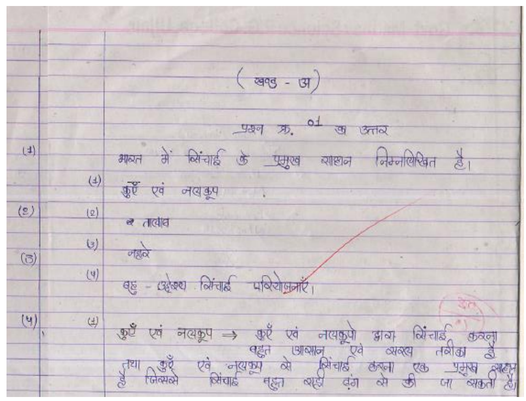
Section : Nat G

Subject : Economic

Date of Examination : 01/02/2019

Signature of Invigilator :

Signature of Valuer



(खण्ड - अ)

प्रश्न क्र. 01 का उत्तर

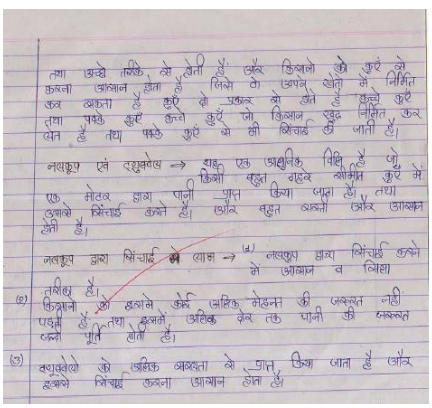
भारत में सिंचाई के प्रमुख साधन निम्नलिखित है।

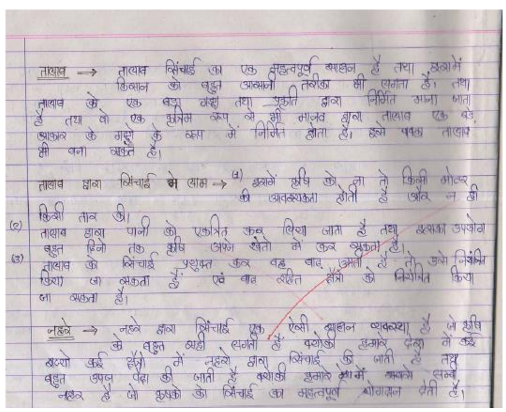
(1) कुएँ एवं नलकूप

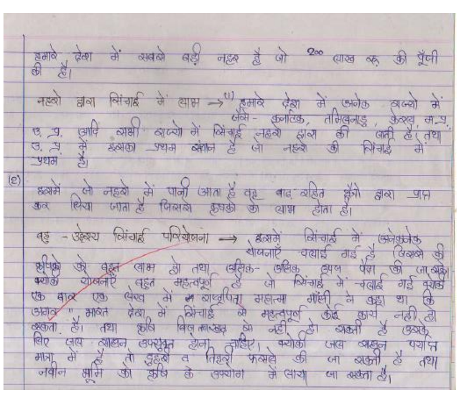
(2) तालाब

(3) नहरे

(4) बहु - उद्देश्य सिंचाई परियोजनाएँ।







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A GRADE ACCREDITED THROUGH NAAC

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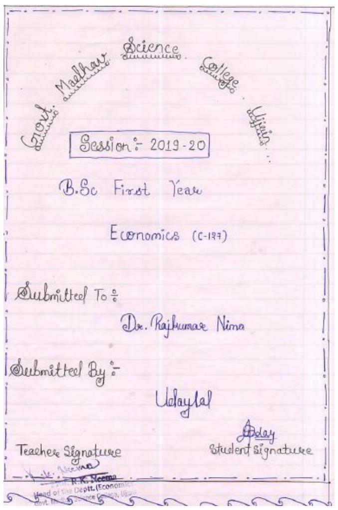
B.Sc. VI sem.

Mode: ASSIGNMENT

Session: 2019-20


Govt. Madhav Science College Ujjain

Session :- 2019-20

B.Sc First Year

Economics (C-197)

Submitted To :-

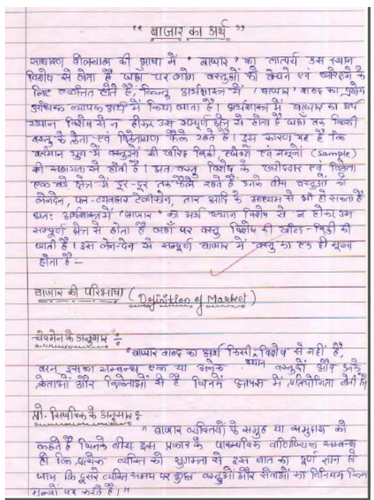
Dr. Rajkumar Nima

Submitted By :-

Udaylal

Teacher Signature

Student Signature

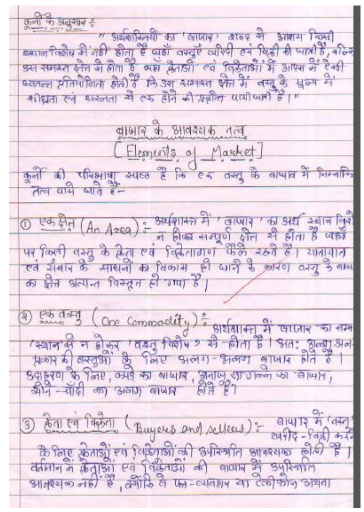

" बाजार का अर्थ "

साधारण बोलचाल की भाषा में 'बाजार' का तात्पर्य उस स्थान विशेष से होता है जहाँ पर लोग वस्तुओं को बेचने एवं खरीदने के लिए एकत्रित होते हैं, किन्तु अर्थशास्त्र में 'बाजार' शब्द का प्रयोग अधिक व्यापक अर्थ में किया जाता है। अर्थशास्त्र में बाजार का अर्थ स्थान विशेष से न होकर उस सम्पूर्ण क्षेत्र से होता है जहाँ तक किसी वस्तु के क्रेता एवं विक्रेतागण फैले रहते हैं। इस कारण यह है कि वर्तमान युग में वस्तुओं की खरीद बिक्री, नमूनों एवं नमूनों (Sample) की सहायता से होती है। अतः वस्तु विशेष के खरीददार एवं विक्रेता एक बड़े क्षेत्र में दूर-दूर तक फैले रहते हैं इनके बीच वस्तुओं का लेनदेन, पत्र-व्यवहार टेलीफोन, तार आदि के माध्यम से भी हो सकता है अतः अर्थशास्त्र में 'बाजार' का अर्थ स्थान विशेष से न होकर उस सम्पूर्ण क्षेत्र से होता है जहाँ पर वस्तु विशेष की खरीद-बिक्री की जाती है। इस लेन-देन से सम्पूर्ण बाजार में वस्तु का एक ही मूल्य होता है –

बाजार की परिभाषा (Definition of Market)

चैपमेन के अनुसार :- "बाजार शब्द का अर्थ किसी स्थान विशेष से नहीं है, वरन इसका सम्बन्ध एक या अनेक वस्तुओं और उनके क्रेताओं और विक्रेताओं से है जिनमें आपस में प्रतियोगिता होती है।"

प्रो. सिजविक के अनुसार :- "बाजार व्यक्तियों के समूह या समुदाय को कहते हैं जिनके बीच इस प्रकार के पारस्परिक वाणिज्यिक सम्बन्ध हों कि प्रत्येक व्यक्ति को सुगमता से इस बात का पूर्ण ज्ञान हो जाय कि दूसरे व्यक्ति समय पर कुछ वस्तुओं और सेवाओं का विनिमय किन मूल्यों पर करते हैं।"


कूर्नो के अनुसार :- "अर्थशास्त्रियों का 'बाजार' शब्द से आशय किसी स्थान विशेष से नहीं होता है जहाँ वस्तुएँ खरीदी एवं बिक्री की जाती है, बल्कि उस समस्त क्षेत्र से होता है जहाँ क्रेताओं एवं विक्रेताओं में आपस में ऐसी स्वतन्त्र प्रतियोगिता होती है कि उस समस्त क्षेत्र में वस्तु के मूल्य में शीघ्रता एवं सरलता से एक होने की प्रवृत्ति पायी जाती है।"

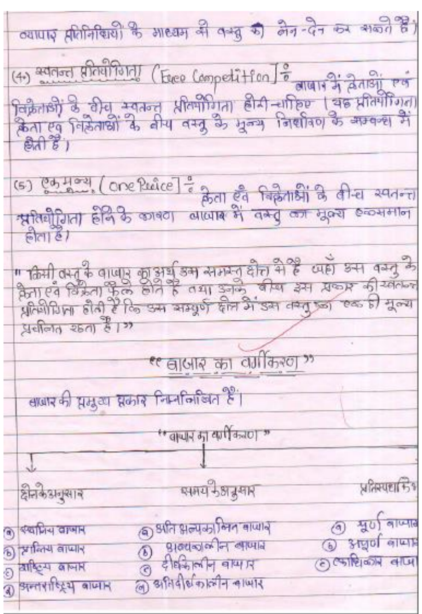
बाजार के आवश्यक तत्व (Elements of Market)

कूर्नो की परिभाषा स्पष्ट है कि एक वस्तु के बाजार में निम्नलिखित तत्व पाये जाते हैं –

① एक क्षेत्र (An Area) :- अर्थशास्त्र में 'बाजार' का अर्थ स्थान विशेष न होकर सम्पूर्ण क्षेत्र से होता है जहाँ पर किसी वस्तु के क्रेता एवं विक्रेतागण फैले रहते हैं। यातायात एवं संचार के साधनों का विकास हो जाने के कारण वस्तु के बाजार का क्षेत्र अत्यन्त विस्तृत हो गया है।

② एक वस्तु (One Commodity) :- अर्थशास्त्र में बाजार का सम्बन्ध 'स्थान' से न होकर 'वस्तु विशेष' से होता है। अतः अलग-अलग प्रकार की वस्तुओं के लिए अलग-अलग बाजार होते हैं। उदाहरण के लिए, कपड़े का बाजार, अनाज या अन्न का बाजार, सोने-चाँदी का अलग बाजार होते हैं।

③ क्रेता एवं विक्रेता (Buyers and sellers) :- बाजार में वस्तु खरीद-बिक्री करने के लिए क्रेताओं एवं विक्रेताओं की उपस्थिति आवश्यक होती है। वर्तमान में क्रेताओं एवं विक्रेताओं की बाजार में उपस्थिति आवश्यक नहीं है, क्योंकि वे पत्र-व्यवहार या टेलीफोन अथवा


व्यापार प्रतिनिधियों के माध्यम से वस्तु का लेन-देन कर सकते हैं।

(4) स्वतन्त्र प्रतियोगिता (Free Competition) :- बाजार में क्रेताओं एवं विक्रेताओं के बीच स्वतन्त्र प्रतियोगिता होनी चाहिए। (यह प्रतियोगिता) क्रेता एवं विक्रेताओं के बीच वस्तु के मूल्य निर्धारण के सम्बन्ध में होती है।

(5) एक मूल्य (One Price) :- क्रेता एवं विक्रेताओं के बीच स्वतन्त्र प्रतियोगिता होने के कारण बाजार में वस्तु का मूल्य एकसमान होता है।

"किसी वस्तु के बाजार का अर्थ उस समस्त क्षेत्र से है जहाँ उस वस्तु के क्रेता एवं विक्रेता फैले होते हैं तथा उनके बीच इस प्रकार की स्वतन्त्र प्रतियोगिता होती है कि उस सम्पूर्ण क्षेत्र में उस वस्तु का एक ही मूल्य प्रचलित रहता है।"

" बाजार का वर्गीकरण "

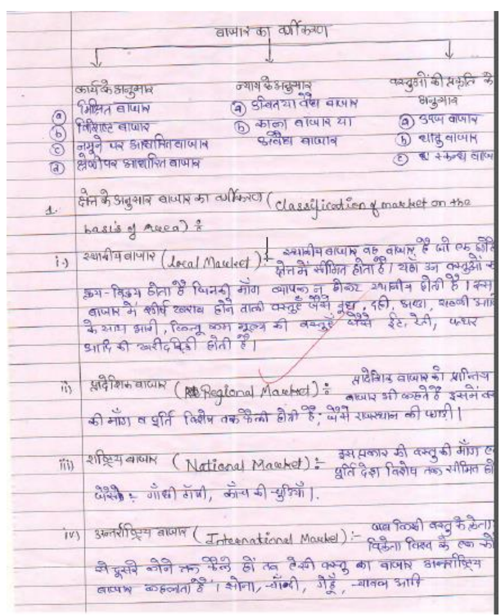
बाजार की प्रमुख प्रकार निम्नलिखित हैं।

" बाजार का वर्गीकरण "

क्षेत्र के अनुसार: (a) स्थानीय बाजार (b) प्रान्तीय बाजार (c) राष्ट्रीय बाजार (d) अन्तर्राष्ट्रीय बाजार

समय के अनुसार: (a) अति अल्पकालीन बाजार (b) अल्पकालीन बाजार (c) दीर्घकालीन बाजार (d) अति दीर्घकालीन बाजार

प्रतिस्पर्धा के: (a) पूर्ण बाजार (b) अपूर्ण बाजार (c) एकाधिकार बाजार


बाजार का वर्गीकरण

कार्य के अनुसार: (a) मिश्रित बाजार (b) विशिष्ट बाजार (c) नमूने पर आधारित बाजार (d) श्रेणी पर आधारित बाजार

न्याय के अनुसार: (a) उचित या वैध बाजार (b) काला बाजार या अवैध बाजार

वस्तुओं की प्रकृति के अनुसार: (a) उपज बाजार (b) धातु बाजार (c) स्कन्ध बाजार

1. क्षेत्र के अनुसार बाजार का वर्गीकरण (Classification of market on the basis of Area) :-

i) स्थानीय बाजार (Local Market) :- स्थानीय बाजार वह बाजार है जो एक छोटे क्षेत्र में सीमित होता है। यहाँ उन वस्तुओं का क्रय-विक्रय होता है जिनकी माँग व्यापक न होकर स्थानीय होती है। इस बाजार में शीघ्र खराब होने वाली वस्तुएँ जैसे दूध, दही, अण्डा, सब्जी आदि के साथ भारी, किन्तु कम मूल्य की वस्तुएँ जैसे ईंट, रेती, पत्थर आदि की खरीद बिक्री होती है।

ii) प्रादेशिक बाजार (Regional Market) :- प्रादेशिक बाजार को प्रान्तीय बाजार भी कहते हैं इसमें वस्तु की माँग व पूर्ति विशेष तक फैली होती है; जैसे राजस्थान की पगड़ी।

iii) राष्ट्रीय बाजार (National Market) :- इस प्रकार की वस्तु की माँग एवं पूर्ति देश विशेष तक सीमित होती है जैसे :- गाँधी टोपी, काँच की चूड़ियाँ।

iv) अन्तर्राष्ट्रीय बाजार (International Market) :- जब किसी वस्तु के क्रेता व विक्रेता विश्व के एक कोने से दूसरे कोने तक फैले हों तब ऐसी वस्तु का बाजार अन्तर्राष्ट्रीय बाजार कहलाता है। सोना, चाँदी, गेहूँ, चावल आदि

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IN FRONT OF POLYTECHNIC COLLEGE DEWAS ROAD, UJJAIN

Sample Signed CCE sheets

Mecahnism to display internal marks to students

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INTERNAL QUALITY ASSURANCE CELL
GOVT MADHAV SCIENCE PG COLLEGE UJJAIN

Record of Comprehensive Continuous Evaluation (CCE)

Session - 2015-2016

Subject: Electronics

Name of the College : Govt. MVM College

Teachers Name (1) : Anamika Sharma

Class & Section : B Sc Ist Sem

(2) .....

SN	Roll Number	Enrolment Number	Student's Name / Father's Name	Record of CCE-I		
				Mode / Remark	Marks Obt. Out of	Student's Signature
1	151449113		Akanksha Agrawal Rajendra Agrawal		14	Akanksha
2	151449114		Akshay Ghanghoriya Ashok Ghanghoriya		11	Akshay
3	151449116		Akshay Patidar Gouri Shankar Patidar		10	
4	151449120		Bablu Rathod Shivnarayan Rathod		12	Bablu
5	151449120		Deepak Bhagwat Subodh Bhagwat		11	
6	151449121		Deepak Prajapati Poonam Chandra Prajapati		12	
7	151449123		Kuldeep Mukesh		13	
8	151449124	—	Nageshwar Choudhary Kaniram Choudhary		08	
9	151449125		Nitin Hatuniya Gopal Hatuniya		12	
10	151449126		Nitin Kumar Gautam Umesh Chandra Gautam		13	
11	151449128		Pratik Kumar Madan Kumar		11	
12	151449129		Rahul Patidar Bhagvati Patidar		10	Rahul
13	151449130		Rishabh Singh Radhe Raman Singh		13	
14	151449131		Sanyam Nagar Nimesh Nagar		13	
15	151449133		Shailendra Malviya Durga Prasad Malviya		12	
16	151449134		Shankar Kushwah Dwarika Prasad Kushwah		11	
17	151449135		Sheetal Shastri Vimlesh Shastri		13	
18	151449136		Suraj Singh Bhatiya Ishwar Singh Bhatiya		10	
19	151449137		Vaibhav Raj Singh Chouhan Yuvraj Singh Chouhan		14	
20	151449138		Vijay Singh Chouhan Mod Singh Chouhan		12	

Countersigned Principal	Countersigned (H.O.D.)	Signature with date (Subject Teacher)
		15/09/2015

Scheme of Marks:

CCE - I : *15% of the maximum marks in the subject.*

CCE - II : *15% of the maximum marks in the subject*

GOVT. MADHAV SCIENCE COLLEGE, UJJAIN
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AFFILIATED TO VIKRAM UNIVERSITY UJJAIN
IN FRONT OF POLYTECHNIC COLLEGE DEWAS ROAD, UJJAIN

Record of Comprehensive Continuous Evalution (CCE)

Session - 2015-2016

Name of the College : Govt. MVM College

Class & Section : B.Sc. Ist Sem.

Subject: Electronics

Teachers Name (1) : Anamika Sharma

(2) : .....

SN	Roll Number	Enrolment Number	Student's Name / Father's Name		Record of CCE-I		
					Mode / Remar	Marks Obt. Out of	Student's Signature
1	15144912.		Aashish Chouhan	Lalu Chouhan		12	Aashish
2	15144841.		Harshwardhan Singh	Govind Singh Rathore		15	
3	15144875		Rahul Dhosariya	Mulchand Dhosariya		12	Rahul.
4	15144939		Vivek Patel	Manoher Patel		08	
5	15144941		Akash Rathore	Radheshyam Rathore		14	
6	15144916		Arun	Laxmi Narayan		13	
7	15144917		Avdhesh Mahakale	Mahesh Mahakale		10	
8	15144919		Bharat Moriya	Kailash Chandra Moriya		09	
9	15144922		Kapil Basanwal	Suresh Chandra Basanwal		08	
10	15144952		Kshitij Chriss Singh	Sanjay Singh		14	
11	15144959		Narendra Singh Bhati	Hakam Singh Bhati		14	
12	15144961.		Nilesh	Ramprasad		12	
13	15144972.		Pawan Jat	Ramnarayan Jat		09	
14	15144972		Sachin Pandey	Surendra Pandey		13	
15	15144977		Satish Kumar Malviya	Manohar Singh Malviya		10	
16	15144976		Sheetal Shukla	Sanjay Shukla		14	
17	15144978.		Shivani Chouhan	Chandra Shekhar Chouhan		13	
18	15145884		Shubham Sharma	Rakesh Sharma		10	
19	15145484		Vikas Sunail	Gendalal Sunail		09	
20	15144988.		Vivek Joshi	Jagdish Joshi		11	

Shyam Sunder Singh Panwar

Scheme of Marks:

CCE - I : *15% of the maximum marks in the subject.*

CCE - II : *15% of the maximum marks in the subject.*

15/09/2015

12

Signature with date (Subject Teacher)	Countersigned (H.O.D.)	Countersigned Principal

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GOVT MADHAV SCIENCE PG COLLEGE UJJAIN

Record of Comprehensive Continuous Evaluation (CCE)

Session - 2015-2016 **Subject: Electronics**

Name of the College : Govt. MVM College Teachers Name (1) : Anamika Sharma

Class & Section : B.Sc. 1st Sem. (2) :

SN	Roll Number	Enrolment Number	Student's Name / Father's Name		Record of CCE-I		
					Mode / Remar	Marks Obt. Out of.....	Student's Signature
1	151449113	✓	Akanksha Agrawal	Rajendra Agrawal	✓	✓ 15	Akanksha
2	151449114	✓	Akshay Ghanghoriya	Ashok Ghanghoriya	✓	✓ 14	Akshay
3	151449115	✗	Akshay Patidar	Gouri Shankar Patidar	P	✓ AB – x	–
4	151449118	✓	Bablu Rathod	Shivnarayan Rathod	✓	✓ 13	Bablu
5	151449120	✓	Deepak Bhagwat	Subodh Bhagwat	✓	✓ 13	Deepak
6	151449121	✓	Deepak Prajapati	Poonam Chandra Prajapati	✓	✓ 14	Deepak
7	151449123	✓	Kuldeep	Mukesh	✓	✓ 14	Kuldeep
8	151449124	✗	Nageshwar Choudhary	Kaniram Choudhary	P	✓ AB – x	–
9	151449125	✓	Nitin Hatuniya	Gopal Hatuniya	✓	✓ 13	Nitin
10	151449126	✓	Nitin Kumar Gautam	Umesh Chandra Gautam	✓	✓ 15	Nitin
11	151449128	✓	Pratik Kumar	Madan Kumar	✓	✓ 13	Pratik
12	151449129	✓	Rahul Patidar	Bhagvati Patidar	✓	✓ 14	Rahul
13	151449130	✗	Rishabh Singh	Radhe Raman Singh	P	AB – x	–
14	151449131	✓	Sanyam Nagar	Nimesh Nagar	✓	✓ 14	Sanyam
15	151449133	✓	Shailendra Malviya	Durga Prasad Malviya	✓	✓ 13	Shailendra
16	151449134	✗	Shankar Kushwah	Dwarika Prasad Kushwah	P	AB – x	–
17	151449135	✓	Sheetal Shastri	Vimlesh Shastri	✓	✓ 14	Sheetal
18	151449136	✓	Suraj Singh Bhatiya	Ishwar Singh Bhatiya	✓	✓ 13	Suraj
19	151449137	✓	Vaibhav Raj Singh Chouhan	Yuvraj Singh Chouhan	✓	✓ 14	Vaibhav
20	151449138	✓	Vijay Singh Chouhan	Mod Singh Chouhan	✓	✓ 14	Vijay

Scheme of Marks:

CCE - I : *15 % of the maximum marks in the subject.*

CCE - II : *15 % of the maximum marks in the subject.*

	Countersign ed (H.O.D.)	Countersign ed Principal
Signature with date (Subject Teacher)		

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GOVT. MADHAV SCIENCE COLLEGE, UJJAIN

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GOVT MADHAV SCIENCE PG COLLEGE UJJAIN

Record of Comprehensive Continuous Evaluation (CCE)

Session - 2015-2016

Name of the College : Govt. MVM College — Subject: Electronics

Class & Section : B.Sc. I st Sem. — Teachers Name (1) : Anamika Sharma

(2) : .....

SN	Roll Number	Enrolment Number	Student's Name / Father's Name		Record of CCE-I			
					Mode / Remar	Marks Obt. Out of 15...	Student's Signature	
1	151449912	~	Aashish Chouhan	Lalu Chouhan	P	AB 09	~	
2	151446841		Harshwardhan Singh	Govind Singh Rathore	✓	15		
3	151448875		Rahul Dhosariya	Mulchand Dhosariya	✓	14		
4	151449939	~	Vivek Patel	Manoher Patel	✓	14		
5	151449941		Akash Rathore	Radheshyam Rathore	✓	15		
6	151449916		Arun	Laxmi Narayan	P	AB 12		
7	151449917		Avdhesh Mahakale	Mahesh Mahakale	✓	13		
8	151449913	~	Bharat Moriya	Kailash Chandra Moriya	✓	14		
9	151449922		Kapil Basanwal	Suresh Chandra Basanwal	✗	14		
10	151449952		Kshitij Chriss Singh	Sanjay Singh	✓	14		
11	151449959		Narendra Singh Bhati	Hakam Singh Bhati	✓	15		
12	151449961		Nilesh	Ramprasad	P	AB 15		
13	151449927		Pawan Jat	Ramnarayan Jat	P	AB 14		
14	151449972		Sachin Pandey	Surendra Pandey	✓	15		
15	151449976		Satish Kumar Malviya	Manohar Singh Malviya	✗	14		
16	151449977		Sheetal Shukla	Sanjay Shukla	✓	12		
17	151449978		Shivani Chouhan	Chandra Shekhar Chouhan	✗	14		
18	151458884		Shubham Sharma	Rakesh Sharma	✓	14		
19	151455484		Vikas Sunail	Gendalal Sunail	✓	12		
20	151449880		Vivek Joshi	Jagdish Joshi	P	AB 14		

	Countersigned (H.O.D.)	Countersigned Principal
Signature with date (Subject Teacher)		

Scheme of Marks:

CCE - I : *15 % of the maximum marks in the subject.*

CCE - II : *15 % of the maximum marks in the subject.*

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Record of Comprehensive Continuous Evalution (CCE)

Session - 2015-2016

Subject : Electronics

Name of the College : Govt. MVM College

Class & Section : B.Sc. IIIrd Sem. I

Teachers Name (1) : Anamika Sharma

(2) :

SN	Roll Number	Enrolment Number	Student's Name	Father's Name	Record of CCE-I Mode / Remark	Marks Obt. Out of	Student's Signature
1	14144487		Anil Choudhari	Govardhan Choudhari		✓ 13	
2	14144469		Ankita Mor	Ganesh Prasad Mor		✓ 14	
3	14144490		Arjun Yadav	Balu Singh Yadav		✓ 12	
4	14144470		Ashutosh Shivam Soni	Ramesh Kumar Soni		~~12~~	—
5	—		Ayush Rathore	Anil Rathore		—	—
6	14144471		Chandrapal Singh	Kishore Singh		✓ 13	
7	14144474		Gyanendra Singh Udawat	Kamal Udawat		✓ 14	
8	14144499		Jitendra Baroliya	Bheru Lal Baroliya		✓ 12	
9	14144502		Mangal Prasad	Govind		✓ 13	
10	14144507		Prakash Maru	Rama Maru		✓ ~~14~~	
11	14144476		Pratibha Ekka	ChrIIIrdopher Ekka		✓ 15	
12	14144509		Rahul Kumar Bairagi	Jagdish Prasad Bairagi		✓ 12	
13	14144510		Rajesh Maru	Goverdhan Maru		✓ ~~14~~	
14	14144478		Sandeep	Jagdish		✓ ~~13~~	
15	14144515		Shahrukh Shah	Rajjak Shah		✓ ~~13~~	
16	14144482		Snigdha Ganguly	Ashish Ganguly		✓ 15	
17	14144483		Surendra Vashishtha	Ramesh Chand Vashishtha		✓ ~~13~~	
18	14144421		Tahseen Raza Dehalvi	Mom Aslam Dehalvi		✓ 12	Ab
19	—		Vipul Jaiswal	Bherulal Jaiswal	—	—	—
20	14144472		Chandrasekhar Sen	Ashok Kumar Sen		✓ 14	

Scheme of Marks:

CCE - I : *15 % of the maximum marks in the subject.*

CCE - II : *15 % of the maximum marks in the subject.*

15/09/2015

Signature with date (Subject Teacher) | Countersigned (H.O.D.) | **Countersigned Principal**

Note : (1) Keep this recored sheet preserved up to the six months after declartion of the results.

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IN FRONT OF POLYTECHNIC COLLEGE DEWAS ROAD, UJJAIN

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Record of Comprehensive Continuous Evalution (CCE)

Session - 2015-2016

Name of the College : Govt. MVM College

Class & Section : B.Sc. IIIrd Sem. I

Subject : Electronics

Teachers Name (1) Anamika Sharma

(2) :

SN	Roll Number	Enrolment Number	Student's Name / Father's Name		Record of CCE-I		
					Mode / Remark	Marks Obt. Out of	Student's Signature
21	—		~~Gopal Solanki~~	~~Shankar Lal Solanki~~		—	
22	14144475		Nilesh Patidar	Ramsingh Patidar		✓ 13	Nilesh
23	14144477		Rohit Choudhary	Shiv Narayan Choudhary		✓ 12	Rohit
24	14144480		Shivam Chaturvedi	Brajesh Chaturvedi		—	
25	14144479		Shivam Parmar	Kamal Parmar		—	
26			~~Shyamsunder Singh Panwar~~	~~Jitendrasingh Panwar~~		-ve	
27	14144457		Sourabh Upadhyay	Om Prakash Upadhyay		✓ 14	Sourabh

Scheme of Marks:

CCE - I : *15 % of the maximum marks in the subject*

CCE - II : *15 % of the maximum marks in the subject*

15/09/2015

Signature with date (Subject Teacher)

@Sw

Countersigned (H.O.D.)

Countersigned Principal

Note : (1) Keep this recored sheet preserved up to the six months after declartion of the results.

GOVT. MADHAV SCIENCE COLLEGE, UJJAIN

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IN FRONT OF POLYTECHNIC COLLEGE DEWAS ROAD, UJJAIN

Record of Comprehensive Continuous Evalution (CCE)

Session - 2015-2016

Subject : Electronics

Name of the College : Govt. MVM College

Class & Section : B.Sc. IV Sem.

Teachers Name (1) : Anamika Sharma

(2) : .....

SN	Roll Number	Enrolment Number	Student's Name / Father's Name		Record of CCE-I		
					Mode / Remark	Marks Obt. Out of	Student's Signature
1	14144487		Anil Choudhari	Govardhan Choudhari		14	Anil
2	14144480		Ankita Mor	Ganesh Prasad Mor		14	Ankita Mor
3	14144490		Arjun Yadav	Balu Singh Yadav		13	Arjun
4	14144470		Ashutosh Shivam Soni	Ramesh Kumar Soni		—	AB
5	—		Ayush Rathore	Anil Rathore		—	AB
6	14144471		Chandrapal Singh	Kishore Singh		13	Chp
7	14144474		Gyanendra Singh Udawat	Kamal Udawat		15	Gyanendra
8	14144499		Jitendra Baroliya	Bheru Lal Baroliya		12	Baroliya
9	14144502		Mangal Prasad	Govind		14	Govind
10	14144507		Prakash Maru	Rama Maru		14	Yadav
11	14144476		Pratibha Ekka	Christopher Ekka		15	Ekka
12	14144509		Rahul Kumar Bairagi	Jagdish Prasad Bairagi		13	Rahul
13	14144510		Rajesh Maru	Goverdhan Maru		14	Rajesh
14	14144478		Sandeep	Jagdish		13	Sandeep
15	14144515		Shahrukh Shah	Rajjak Shah		12	Shahrukh Shah
16	14144482		Snigdha Ganguly	Ashish Ganguly		14	Snigdha
17	14144483		Surendra Vashishtha	Ramesh Chand Vashishtha		13	Surendra
18	14144421		Tahseen Raza Dehalvi	Mom Aslam Dehalvi		10	Tahseen
19	—		Vipul Jaiswal	Bherulal Jaiswal		—	AB
20	14144472		Chandrasekhar Sen	Ashok Kumar Sen		14	Sen

Scheme of Marks:

CCE - I : *15 % of the maximum marks in the subject.*

CCE - II : *15 % of the maximum marks in the subject.*

Signature with date (Subject Teacher)

Countersigned (H.O.D.)

Countersigned Principal

Note : (1) Keep this recored sheet preserved up to the six months after declartion of the results.

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GOVT. MADHAV SCIENCE COLLEGE, UJJAIN

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INTERNAL QUALITY ASSURANCE CELL
GOVT MADHAV SCIENCE PG COLLEGE UJJAIN

Record of Comprehensive Continuous Evalution (CCE)

Session - 2019-2020 Subject: Electronics

Name of the College : Govt. MVM College Teachers Name (1) : Anamika Sharma

Class & Se B.Sc. III Year (2) : .....

SN	Roll Number	Student's Name	Father's Name	Record of CCE					
				CCE-I	CCE II	Total	Signature -I	Signature -II	
1	0 1713080 2	RITIK ANJANA	HIRALAL ANJANA	08	08✓	16	Ritik	Ritik	
2	1713074 1	MUKESH RAWAT	RAMESH CHAND RAWAT	09	08✓	17	Mukesh	Mukesh	
3	1713079 3	ISHWAR SINGH DO.	SHANKHAR DODIYA	08	07✓		Ishwar	Ishwar	
4	1713080 7	ABHISHEK BORASI	CHUNNI LAL BORASI	09	09✓				
5	1713080 4	SACHIN VAGHELA	ATMARAM VAGHELA	09	08✓		Sachin	Sachin	
6	1713083 5	SHRAVAN KUMAR	RAMESHCHAND	09	08✓				
7	1713080 1	MONIKA SHARMA	SANTOSH SHARMA	09	08✓		Monika	Monika	
8	1713079 9	KHUSHBOO TRIVEDI	OMPRAKASH TRIVEDI	08	09✓		Khushboo	Khushboo	
9	1713080 0	MOHINUDDIN	FAKRUUDIN	08	09		Mohinuddin	Mohinuddin	
10	1713072 8	DIVYA GOWSAMI	NARENDRA GOWSAMI	08	08✓		Divya	Divya	
11	1713075 4	PRIYA YADAV	ASHOK YADAV	09	09✓		Priya	Priya	

Scheme of Marks:

CCE - I *15 % of the maximum marks in the subject*

CCE - II *15 % of the maximum marks in the subject*

Signature with date (Subject Teacher)	Countersigned (H.O.D.)	Countersigned Principal
20/11/19.		

Record of Comprehensive Continuous Evalution (CCE)

Session - 2019-2020 Subject: Electronics

Name of the College : Govt. MVM College Teachers Name (1) : Anamika Sharma

Class & Se B.Sc. II (2) : .....