



Maa Bharti P. G. College, Kota

Mahaveer Nagar III, Sector-8
Kota-324005, Rajasthan
E-mail-mbpgcollege@yahoo.com

NOTICE

Date: 21st March 2022

Ref. No.:

All students of M.Sc. Botany I and III Semester are informed that their first midterm exam will commence from 28th March 2022. Students should be regular during mid-term exams. Mid-term exam Time-Table is as follows:

Mid-Term I M.Sc. Sem. I

Time: 9:00 A.M.

Date	Paper
28 th March 2022	Biology and diversity of Lower plants
29 th March 2022	Pteridophyta, Gymnosperm and Paleobotany
30 th March 2022	Plant Physiology
31 st March 2022	Microbiology and Plant Pathology

M.Sc. Sem. III

Time: 9:00 A.M.

Date	Paper
28 th March 2022	Plant Development and Reproduction
29 th March 2022	Cytogenetics
30 th March 2022	Taxonomy of Angiosperms
31 st March 2022	Advanced plant Pathology I

Dr. Nivedita Sharma
Department of Botany

Head of Department
BOTANY
Maa Bharti P. G. College
Mahaveer Nagar-III, Kota (Raj.)



Shweta Saxena
Principal

मौ भारती स्वामीनंदन महाविद्यालय
महावीर नगर तृतीय, कोटा

SHWETA SAXENA

25.04.2024 10:51



Maa Bharti P. G. College, Kota

Mahaveer Nagar III, Sector-8

Kota-324005, Rajasthan

E-mail-mbpgcollege@yahoo.com

NOTICE

Ref. No.:

Date: 15/4/2022

All students of M.Sc. Botany I and III Semester are informed that their first midterm exam will commence from 23rd April 2022. Students should be regular during mid-term exams. Mid-term exam Time-Table is as follows:

Mid-Term II M.Sc. Sem. I

Time: 9:00 A.M.

Date	Paper
23 rd April 2022	Biology and diversity of Lower plants
25 th April 2022	Pteridophyta, Gymnosperm and Paleobotany
26 th April 2022	Plant Physiology
27 th April 2022	Microbiology and Plant Pathology

M.Sc. Sem. III

Time: 9:00 A.M.

Date	Paper
23 rd April 2022	Plant Development and Reproduction
25 th April 2022	Cytogenetics
26 th April 2022	Taxonomy of Angiosperms
27 th April 2022	Advanced plant Pathology I

Dr. Nivahita Sharma

Department of Botany

Head of Department
Maa Bharti P. G. College
Mahaveer Nagar III, Kota (Raj.)



Shweta Saxena

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मौ भारती स्नातकोत्तर महाविद्यालय
महावीर नगर तृतीय, कोटा

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25.04.2024 10:51

Maq Bharti P.G. College, Kota (Raj)
Department of Botany (2021)
M.Sc Botany I sem Mid Term I
Paper - I (any 3)
Biology & Diversity of Lower plants
Time 1 hr.
mm. 15

- Q1 Discuss diversified habitats in algae (5)
- Q2 Give an account of different types of asexual spore found in algae (5)
- Q3 Write short notes on the following.
- a) External morphology of Chara (5)
 - b) External structure of Sphagnum.
- Q
- Q4) Explain :- (5)
- (a) Globule (Male Reproductive structure in Chara)
 - (b) Reproduction in Volvox

Maa Bharti P.G. College, Kota.

Department of Botany

M.Sc. Botany I Sem. (2021)

Mid Term - II

Paper - I

max (15)

Time 1hr

(any 3)

Que (1) Explain criteria for classification of Algae in terms of pigments, Reserve food, flagella. (5)

Que (2) Explain substrate relationship in fungi (5)

Que (3) Write Ultrastructure of fungal cell with diagram (5)

Que (4) Explain classification of Algae (Modern classification). (5)

Que (5) Write short note on diverse Habitats of Algae (5)

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977
NAME OF COLLEGE: 11 MAH BHARTI P. G. MAHAVIDYALAYA, KOTA
NAME OF EXAMINATION: B.Sc. BOTANY SEM. - I EXAM - DEC. - 2021

21-22
22-23

Paper-1

SUBJECT WITH CODE: 0501 BIOLOGY & DIVERSITY OF LOWER PLANTS-INT DMRNO- 5626

CATEGORY REG/EX DAY & DATE OF EXAMINATION:

SRNO	DATE	ROLL NO.	NAME OF CANDIDATE FATHER'S NAME	SIGN OF CANDIDATE
1		223171	ANKANSHA MITTAL RAKESH MITTAL	Ankansha
2		223172	ANITA VAISHNAV BANWARI LAL VAISHNAV	Anita vaishnav
3		223173	AYUSHI KHARNIVAL SANJAY KHARNIVAL	Ayushi kharnival
4		223174	BHARTI MALAV PREM CHAND MALAV	Bharti malav
5		223175	EKTA SOLANKI M S SOLANKI	Ekta
6		223176	HIMANSHI PARIHAR GOVIND PARIHAR	Himanshi
7		223177	MAHIMA SEN KHEMRAJ SEN	Mahima Sen
8		223178	MEENAKSHI RATHOR MOHAN LAL RATHOR	Meenakshi
9		223179	MOHIT AJMERA MAHESH AJMERA	Mohit Ajmera
10		223180	MONIKA DHAKED MAHENDRA SINGH DHAKED	Monika
11		223181	NEELU SHARMA LAL CHAND SHARMA	Neelu sharma
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13		223183	RAMESHWARI SHARMA BANSHIDHAR SHARMA	Rameshwari Sharma
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15		223185	SHUBHAM GAUTAM PRADDHUMAN GAUTAM	Shubham gautam
16		223186	SHUBHAM SHARMA SATYA PRAKASH SHARMA	Shubham sharma
17		223187	VAISHALI SINGH SURENDRA SINGH	Vaishali singh
18		223188	YOGESH NAGAR CHETARAM NAGAR	Yogesh nagar

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SIGNATURE OF INTERNAL EXAMINERS

SIGNATURE OF EXTERNAL EXAMINERS

Po- 18
Ab- NRZ
Total 18

SHWETA SAXENA

25.04.2024 10:51

15/22 12:37 PM

21-22 7
22-23 Session

www.univexam.org/Uok/ExaminerPanel/printpractical.php



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

Paper - I

85001-M.Sc. BOTANY SEMESTER-I EXAM.-DEC.-2021
8501-BIOLOGY AND DIVERSITY OF LOWER PLANTS-(-INT)

Batch NO: 5620

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	24
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	26
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	29
4	223174	BHARTI MALAV	PREM CHAND MALAV	30	28
5	223175	EKTA SOLANKI	M S SOLANKI	30	29
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	30	28
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17	223187	VAISHALI SINGH	SURENDRA SINGH	30	27
18	223188	YOGESH NAGAR	CHETARAM NAGAR	30	26

Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner
DR. NIVEDITA SHARMA

05-Jul-2022

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25.04.2024 10:51

Maa Bharti P. G. College, Kota (Raj)

Department of Botany

M. Sc. Botany Sem I

Mid term Examination

Paper - II

(2021)

Mid Term I

(any 3)

Pteridophyta, Gymnosperm and Palaeobotany

Time 1hr.

M.M 15

Q1 What is a stele? Describe the stele system in Pteridophyta. (5)

Q2 Describe general characters of Pteridophyta. (8)

Q3 What are the characteristics of the root of Isoetes? Explain with the help of suitable diagrams. (5)

OR

Q4) Explain Classification of Pteridophytes (5)

Q5) Difference b/w (5)

(a) Pteridophytes and Gymnosperm
(b) Cycas coralloid root

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Man Bharti P.G. College, Kolkata

Department of Botany (2021)

Msc Botany (Semester-I)

Mid Term-II

Paper-II

Time (1 hr)

min (15)

(any 3)

Que (1).

Explain Process of Evolution of Gymnosperm. (5)

Que (2).

Write short note on Telome Theory (5)

Que (3).

What is Geological time scale Explain (5)

Que (4)

Explain Heterospory and origin of seed habit in pteridophytes (5)

Que (5)

Write down the general characters of Lycopside (5)

UNIVERSITY OF KOTA
ATTENDANCE SHEETNAME OF COLLEGE: 11 : MAA BHARTI P.G. MAHAVIDHYALYA, KOTA
NAME OF EXAMINATION: B.Sc. BOTANY SEM. -I EXAM. -DEC. -2021

SUBJECT WITH CODE: 0502:PTRIDOPHYTA, GYMNOSPERM AND PALAEOBOTANY-INDOORNO-

5622

Page 2

CATEGORY: REG/EX.

DAY & DATE OF EXAMINATION:

SNO	BATCH	ROLL NO.	NAME OF CANDIDATE FATHER'S NAME	VISION OF CANDIDATE
1		223171	AAKANSHA MITTAL RAKESH MITTAL	Aakansha
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5		223175	EKTA SOLANKI M S SOLANKI	Dub.
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7		223177	MAHIMA SEN KHEMRAJ SEN	Mahima Sen
8		223178	MEENAKSHI RATHOR MOHAN LAL RATHOR	Meenakshi
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Total = 18

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UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

Paper-II

85001-M.Sc. BOTANY SEMESTER-I EXAM.-DEC.-2021

8502-PTRIDOPHYTA, GYMNOSPERM AND PALAEOBOTANY-(-INT)

Batch NO: 5622

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	24
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	25
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Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner
DR. NIVEDITA SHARMA

05-Jul-2022

Maa Bharti P.G. College, Kota (Raj)

Department of Botany

M.Sc. Botany I Sem

Mid term Examination

Paper - III

Plant Physiology

(2024)

Mid Term - I
(Quy 3)

Time: 1 hr

MM 15

Q1 Explain the Integral Role of Potassium in Plant-water relations.

Q2 Explain the factors affecting enzyme activity
OR

How enzyme catalyse a reaction?

Q3 Illustrate C_4 carbon fixation.
OR

Q4) Explain CAM cycle in Plants
OR

Q5 Explain :-

(a) Oxidative Phosphorylation

(b) Water Relation in plants

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Maa Bharti P.G. College, Kolar
Department of Botany
Semester - 1 (2024)
Mid Term - II
Paper - IV
Time (15)

(Any 3)

Que (1) Explain Stomatal Regulation of Transpiration (5)

Que (2) Explain CAM Pathway (5)

Que (3) What is Oxidative Phosphorylation (5)

Que (4) Explain difference between C_3 and C_4 Plants (5)

Que (5) Write short note on High energy Compounds. Explain their synthesis and utilization in detail (5)

981

UNIVERSITY OF KOTA
ATTENDANCE SHEETNAME OF COLLEGE: 11 : MAA BHARTI P. G. MAHAVIDYALAYA, KOTA
NAME OF EXAMINATION: B. Sc. BOTANY SEM. - I EXAM. - DEC. - 2021

SUBJECT WITH CODE: B503: PLANT PHYSIOLOGY - INT

ONRNO- 5624

Paper - 3

CATEGORY: REG/EX DAY & DATE OF EXAMINATION:

SNO	BATCH	ROLL NO.	NAME OF CANDIDATE FATHER'S NAME	VISION OF CANDIDATE
1		223171	AARANKSHA MITTAL RAKESH MITTAL	Aakanksha
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UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

Paper - III

85001-M.Sc. BOTANY SEMESTER-I EXAM.-DEC.-2021

8503-PLANT PHYSIOLOGY-(-INT)

Batch NO: 5624

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
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Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner
DR. NIVEDITA SHARMA

05-Jul-2022

Maa Bharti P.G. College, Kota (Raj)

Department of Botany

M. Sc. Sem I [Botany]

Midterm examination

Paper. IV

Microbiology and Plant Pathology

(2024)

Mid Term I
(any 3)

Q1) Write a short note on the following Plant disease. (5)

- a) Paddy blast disease
- b) Soft rot of vegetables
- c) Little leaf of brinjal

Q2) Differentiated between smut of wheat and smut of Bajra. (5)

Q3) Explain :- (5)

- (a) Plant Quarantine
- (b) Biological control of Disease (5)

Q4)

Write short note on Defence Mechanism in plants.

Maa Bharti P.G. College, Kota
Department of Botany
MSc (Botany) (2024)
Semester - I

Paper - IV
Mid - Term - IInd Term (The)
num (15)
(any 3)

Que (1) What are Monoclonal Antibodies
Explain (5)

Que (2) Explain Transmission of Virus (5)

Que (3) Explain Isolation and Purification
of Virus. (5)

Que (4) Write short note on the general
characteristics of Phytoplasma. also explain
their role in causing plant diseases. (5)

Que (5) Write short note on cyanobacteria
write down their salient features
and biological importance. (5)



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

Paper-IV

85001-M.Sc. BOTANY SEMESTER-I EXAM.-DEC.-2021
8504-MICROBIOLOGY AND PLANT PATHOLOGY-(-INT)

Batch NO: 5626

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	24
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Signature of Internal Examiner

Date of Submission.....



Signature of External Examiner
DR. NIVEDITA SHARMA

05-Jul-2022

Maa Bharti P.G. College, Kot-9
Department of Botany
Mid term - 1 (2021)
Sem - III (Paper - 1) (mm 15)
(any 3)

Q. 1) Short note on Microgenesis? (3)

Q. 2) Write note on SAM? (3)

Q. 3) Describe Macrosporogenesis? (3)

Que 4) Explain the process of Pollen tube growth and guidance in detail (5)

OR

Que 5) Explain Ovule development, megasporogenesis - (5)

Que 6) Explain the process of pollen-stigma interactions. (5)

OR

Que 7) Write short-note on : - (5)

- (a) Control of leaf form
- (b) Phyllotaxy

Maa bharti P.G college kofe

Department of Botany

Mid term - II

(2021)

Sem - III (Paper - I)

(any 3)

- Q. ① → Write a note on Root Apical meristem? ⑤
- Q. ② Types of pollination? ⑤
- Q. ③ structure of seed and Apomixis? ⑤
- Q. ④ Write short note on :-
- (a) Organization of Embryo sac
 - (b) Ovule Development, megasporogenesis
- OR
- Q. ⑤ Explain :- ⑤
- (a) Phyllotaxy
 - (b) Secretory ducts and Laticifers
 - (c) Differentiation of epidermis -

Maa Bharti P.G College, Kota
Mid-Term Attendance
M.Sc. Botany

Paper-1

Date:
Paper: Plant Development and Reproduction.
Semester: 8503 - M.Sc. Botany Semester - III Exam-2022.

Sr. No.	Student's Name	Father's Name	Signature
1.	Aakansha Mittal	Rakesh Mittal	Aakansha.
2.	Anita Vaishnav	Banwari Lal Vaishnav	Anita Vaishnav
3.	Ayushi Kharniwal	Sanjay Kharniwal	Ayushi Kharniwal
4.	Bharti Malav	Prem Chand Malav	Bharti malav
5.	Ekta Solanki	M.S. Solanki	Ekta
6.	Himanshi Parihar	Govind Parihar	Himanshi
7.	Mahima sen	Khemraj Sen	Mahima Sen
8.	Meenakshi Rathore	Mohan Lal Rathore	meenakshi
9.	Mohit Ajmera	Maheshj ajmera	Mohit Ajmera.
10.	Monika Dhakad	Mahendra Singh Dhakad	Monika
11.	Neelu Sharma	Lal Chand Sharma	Neelu Sharma.
12.	Nikita Suman	Krishan Murari Suman	Nikita Suman
13.	Rameshwari Sharma	Bansi Dhar Sharma	Rameshwari Sharma
14.	Shipra Devlia	Chandra Shekhar Devliya	Shipra devlia.
15.	Shubham Gautam	Praddhumn Gautam	शुभम गौतम
16.	Shubham Sharma	Satya Prakash Sharma	
17.	Vaishali Singh	Surendra Singh	Vaishali Singh.
18.	Yogesh Nagar	Chetram Nagar	योगेश नागर
19.	Ayushi Rathore	Arvind Rathore	
20.	Anil Kumar Meena	Ram Charan Meena	
21.	Raveena Saini	Bhanwar Lal Saini	

Total = 17
M = 17
AS = 2
N.L

SHWETA SAXENA

25.04.2024 10:51



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

Paper - I

85003-M.Sc. BOTANY SEMESTER-III EXAM.-DEC.-2022
8521-PLANT DEVELOPMENT AND REPRODUCTION-(INT)

Batch NO: 36744

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	28
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	27
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	28
4	223174	BHARTI MALAV	PREM CHAND MALAV	30	27
5	223175	EKTA SOLANKI	M S SOLANKI	30	29
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	30	28
7	223177	MAHIMA SEN	KHEMRAJ SEN	30	27
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	30	27
9	223179	MOHIT AJMERA	MAHESH AJMERA	30	28
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	30	28
11	223181	NEELU SHARMA	LAL CHAND SHARMA	30	28
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	30	28
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	30	29
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	30	28
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	30	27
16	223187	VAISHALI SINGH	SURENDRA SINGH	30	28
17	223188	YOGESH NAGAR	CHETARAM NAGAR	30	28

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

18-Apr-2023

SHWETA SAXENA

25.04.2024 10:51

Maabharti P.G. College Kota
Department of Botany

Mid term - I

(2021)

Sem → III

Paper - II

(any 3)

Q → ① what is catabolic respiration ⑤

Q → ② what is genetic Markers? ⑤

Q → ③ Explain RNA Splicing ⑤

Q → ④ Write short note on: -

① Spontaneous and Induced mutation
② Genetic Markers.

Q → ⑤

or

⑤

Explain the mechanism of RNA
splicing.

or

Q → ⑥ Write short note on: -

① Physical and chemical mutagens.
② Chromosome mapping

SHWETA SAXENA

25.04.2024 10:51

... D.C. College, Kota.
Maa bharti P.G. college Kota
Department of Botany

Mid term - II

Sem → III

Paper - II

(any 3)

Q-① write short note on Excision Repair? ⑤

Q-② write short note on cot curve? ⑤

Q-③ sex chromosomes in human? ⑤

Q-④ write short note on:- ⑤

(a) Spontaneous / Induced mutation

(b) Molecular basis of gene mutation

OR

Q-⑤ Explain:- ⑤

(a) Polytene chromosome / Lampbrush chromosome

(b) Molecular basis of chromosome pairing

Maa Bharti P.G College, Kota
Mid-Term Attendance
M.Sc. Botany

Paper - 2

Date:

Paper: Cytogenetics

Semester: 25.06.21 - M.Sc. Botany Semester - III Exam 2021

Sr. No.	Student's Name	Father's Name	Signature
1.	Aakansha Mittal	Rakesh Mittal	<u>Aakansha</u>
2.	Anita Vaishnav	Banwari Lal Vaishnav	<u>Anita Vaishnav</u>
3.	Ayushi Kharniwal	Sanjay Kharniwal	<u>Ayushi malav</u>
4.	Bharti Malav	Prem Chand Malav	<u>Bharti malav</u>
5.	Ekta Solanki	M.S. Solanki	<u>Ekta</u>
6.	Himanshi Parihar	Govind Parihar	<u>Himanshi</u>
7.	Mahima sen	Khemraj Sen	<u>Mahima Sen</u>
8.	Meenakshi Rathore	Mohan Lal Rathore	<u>Meenakshi</u>
9.	Mohit Ajmera	Maheshj ajmera	<u>Mohit Ajmera</u>
10.	Monika Dhakad	Mahendra Singh Dhakad	<u>Monika</u>
11.	Neelu Sharma	Lal Chand Sharma	<u>Neelu Sharma</u>
12.	Nikita Suman	Krishan Murari Suman	<u>Nikita Suman</u>
13.	Rameshwari Sharma	Bansi Dhar Sharma	<u>Rameshwari Sharma</u>
14.	Shipra Devlia	Chandra Shekhar Devliya	<u>Shipra devliya</u>
15.	Shubham Gautam	Praddhumn Gautam	<u>शुभम गौतम</u>
16.	Shubham Sharma	Satya Prakash Sharma	NA
17.	Vaishali Singh	Surendra Singh	<u>Vaishali Singh</u>
18.	Yogesh Nagar	Chetram Nagar	<u>योगेश नागर</u>
19.	Ayushi Rathore	Arvind Rathore	<u>NA</u>
20.	Anil Kumar Meena	Ram Charan Meena	<u>NA</u>
21.	Raveena Saini	Bhanwar Lal Saini	<u>NA</u>

Total = 17

Pr = 17

As 2

SHWETA SAXENA

25.04.2024 10:51



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

Paper - II

85003-M.Sc. BOTANY SEMESTER-III EXAM.-DEC.-2022

8522-CYTOGENETICS-(INT)

Batch NO: 36745

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	28
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	27
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	28
4	223174	BHARTI MALAV	PREM CHAND MALAV	30	27
5	223175	EKTA SOLANKI	M S SOLANKI	30	29
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	30	27
7	223177	MAHIMA SEN	KHEMRAJ SEN	30	27
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	30	27
9	223179	MOHIT AJMERA	MAHESH AJMERA	30	27
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	30	28
11	223181	NEELU SHARMA	LAL CHAND SHARMA	30	27
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	30	27
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	30	29
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	30	28
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	30	26
16	223187	VAISHALI SINGH	SURENDRA SINGH	30	28
17	223188	YOGESH NAGAR	CHETARAM NAGAR	30	27

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

18-Apr-2023

SHWETA SAXENA

25.04.2024 10:51

Maq bharti P.G. College, Kota

Department of Botany

Mid term - I

(2021)

Sem → III

Paper → III

(only 3)

Q. ① → Give Brief Account on Artificial System? (6)

Q. ② what is phylogenetic System? (5)

Q. ③ taxonomic Hierarchy? (5)

Q. ④ Write short note on: - (5)

(a) Salient features of International Code of Botanical nomenclature.

(b) taxonomic Keys - (5)

OR

Q. ⑤ Explain range of floral Variation in Asteraceae.

maa bharti p.g. college Kota

Department of Botany

Mid term $\rightarrow$ II

(2021)

Sem $\rightarrow$ III

Paper $\rightarrow$ III

Q. 1) what is Eupomati?

Q. 2) Floral characters of Rubiace

Q. 3) Economic importance of family Cucurbitaceae?

Q. 4) Explain :-

(a) Write short note on Habit of Angiosperm

(b) Primitive families of Angiosperm

(c) Time and Place of Origin of Angio-sperm

OR

Q. 5) Explain :-

(a) Taxonomic evidence.

(b) Relevance of Taxonomy to conservation.

Maa Bharti P.G College, Kota
Mid-Term Attendance
M.Sc. Botany

Date:

Paper: Taxonomy of Angiosperms.

Semester: 25002 - M.Sc. Botany Semester - III Exam. 2022 Page - 3

Sr. No.	Student's Name	Father's Name	Signature
1.	Aakansha Mittal	Rakesh Mittal	Aakansha
2.	Anita Vaishnav	Banwari Lal Vaishnav	Anita. Vai
3.	Ayushi Kharniwal	Sanjay Kharniwal	आयुशी
4.	Bharti Malav	Prem Chand Malav	Bharti Malav.
5.	Ekta Solanki	M.S. Solanki	Ekta. Solanki
6.	Himanshi Parihar	Govind Parihar	हिमंशी परीहार
7.	Mahima sen	Khemraj Sen	mahima.
8.	Meenakshi Rathore	Mohan Lal Rathore	meenakshi.
9.	Mohit Ajmera	Maheshj ajmera	मोहित
10.	Monika Dhakad	Mahendra Singh Dhakad	मोनि
11.	Neelu Sharma	Lal Chand Sharma	Neelu.
12.	Nikita Suman	Krishan Murari Suman	नीकिता
13.	Rameshwari Sharma	Bansi Dhar Sharma	Rameshwari
14.	Shipra Devlia	Chandra Shekhar Devliya	Shipra
15.	Shubham Gautam	Praddhumn Gautam	Shubham
16.	Shubham Sharma	Satya Prakash Sharma	Shubham NA Left
17.	Vaishali Singh	Surendra Singh	योगेश
18.	Yogesh Nagar	Chetram Nagar	योगेश
19.	Ayushi Rathore	Arvind Rathore	NA
20.	Anil Kumar Meena	Ram Charan Meena	NA
21.	Raveena Saini	Bhanwar Lal Saini	NA



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

85003-M.Sc. BOTANY SEMESTER-III EXAM.-DEC.-2022

8523-TAXONOMY OF ANGIOSPERMS-(INT)

Paper-III

Batch NO: 36746

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	27
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	28
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	28
4	223174	BHARTI MALAV	PREM CHAND MALAV	30	27
5	223175	EKTA SOLANKI	M S SOLANKI	30	29
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	30	28
7	223177	MAHIMA SEN	KHEMRAJ SEN	30	27
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	30	28
9	223179	MOHIT AJMERA	MAHESH AJMERA	30	28
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	30	27
11	223181	NEELU SHARMA	LAL CHAND SHARMA	30	28
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	30	27
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	30	29
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	30	27
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	30	27
16	223187	VAISHALI SINGH	SURENDRA SINGH	30	28
17	223188	YOGESH NAGAR	CHETARAM NAGAR	30	27

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

18-Apr-2023

SHWETA SAXENA

25.04.2024 10:51

mao bharti pgs college koter

Department of Botany (2021)

Mid term - I

Sem - III

Paper - IV

(15 min)

(any 3)

Q-① Stripe disease of Barley?

Q-② Plant disease infection?

Q-③ What is plant disease dev.?

Q-④ Write short note on:-

(a) Late blight of Potato

(b) Tikka disease of groundnut
or

Q-⑤ Explain any (2).

(a) Role of salicylic acid in plant-disease development-

(b) Culture of obligate parasite

(c) SAR.

Maa bharti P.g. College Kota
Department of Botany
Mid term - II
Sem - III
Paper - IV

(2021)

M.M. (15)

Answer (3)

Q-1 → Powdery mildew of grapes (5)

Q-2 Write short on plant disease forecasting (5)

Q-3 Flag smut of wheat disease (5)

Q-4 Write short note on 2 - (5)

(a) Green Ear disease of Bajra

(b) Technique of tissue culture and its application in plant pathology OR

Q-5 Explain :- (5)

(a) Plant quarantine

(b) Physical control of plant disease

SHWETA SAXENA

Maa Bharti P.G College, Kota
Mid-Term Attendance
M.Sc. Botany

Paper-4

Batch No. 50898

(INT)

Date:
 paper: Adv. Plant Pathology
 semester: 85004 - M.Sc. Botany Semester - III

EXAM - 2022

Sr. No.	Student's Name	Father's Name	Signature
1.	Aakansha Mittal	Rakesh Mittal	Aakansha
2.	Anita Vaishnav	Banwari Lal Vaishnav	Anita V.
3.	Ayushi Kharniwal	Sanjay Kharniwal	Ayushi
4.	Bharti Malav	Prem Chand Malav	Bharti malav
5.	Ekta Solanki	M.S. Solanki	Ekta Solanki
6.	Himanshi Parihar	Govind Parihar	Himanshi Parihar
7.	Mahima sen	Khemraj Sen	Mahima
8.	Meenakshi Rathore	Mohan Lal Rathore	meenakshi
9.	Mohit Ajmera	Maheshj ajmera	Mohit
10.	Monika Dhakad	Mahendra Singh Dhakad	Monika
11.	Neelu Sharma	Lal Chand Sharma	Neelu
12.	Nikita Suman	Krishan Murari Suman	Nikita
13.	Rameshwari Sharma	Bansi Dhar Sharma	Rameshwari
14.	Shipra Devlia	Chandra Shekhar Devliya	Shipra
15.	Shubham Gautam	Praddhumn Gautam	Shubham
16.	Shubham Sharma	Satya Prakash Sharma	Shubham
17.	Vaishali Singh	Surendra Singh	Vaishali Singh
18.	Yogesh Nagar	Chetram Nagar	Yogesh
19.	Ayushi Rathore	Arvind Rathore	NA
20.	Anil Kumar Meena	Ram Charan Meena	NA
21.	Raveena Saini	Bhanwar Lal Saini	NA

Total = 17
 R = 17
 AB = Nil
 SHWETA SAXENA
 25.04.2024 10:51



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

Paper-IV

85003-M.Sc. BOTANY SEMESTER-III EXAM.-DEC.-2022

8524-(A) ADV. PLANT PATHOLOGY-(INT)

Batch NO: 36747

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	28
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	27
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	27
4	223174	BHARTI MALAV	PREM CHAND MALAV	30	28
5	223175	EKTA SOLANKI	M S SOLANKI	30	29
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	30	28
7	223177	MAHIMA SEN	KHEMRAJ SEN	30	27
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	30	27
9	223179	MOHIT AJMERA	MAHESH AJMERA	30	27
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	30	28
11	223181	NEELU SHARMA	LAL CHAND SHARMA	30	28
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	30	28
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	30	29
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	30	28
15	223187	VAISHALI SINGH	SURENDRA SINGH	30	27
16	223188	YOGESH NAGAR	CHETARAM NAGAR	30	27

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

12-Apr-2023

SHWETA SAXENA

25.04.2024 10:51



Maa Bharti P. G. College, Kota

Mahaveer Nagar III, Sector-8

Kota 324005, Rajasthan

E-mail- mbpgcollege@yahoo.com

NOTICE

Ref. No.:

Date: 12/7/2022

All students of M.Sc. Botany II and IV Semester are informed that their first midterm exam will commence from 19th July 2022. Students should be regular during mid-term exams. Mid-term exam Time-Table is as follows:

Mid-Term I M.Sc. Sem. II

Time: 9: A.M.

Date	Paper
19 th July 2022	Plant Ecology
20 th July 2022	Plant Resource Utilization and Conservation
21 st July 2022	Cell and Molecular Biology
22 nd July 2022	Biochemistry

M.Sc. Sem. IV

Time: 9:00 A.M.

Date	Paper
19 th July 2022	Biotechnology and Biometrics
20 th July 2022	Plant Morphology and Anatomy
21 st July 2022	Seed Biology and Plant Breeding
22 nd July 2022	Advanced Plant Pathology II

Dr. Nivedita Sharma
Head of Department
Department of Botany
Maa Bharti P. G. College
Mahaveer Nagar III, Kota (Raj.)



Shweta Saxena
Principal
मौ भास्ती स्नातकोत्तर महाविद्यालय
महावीर नगर तृतीय, कोटा

SHWETA SAXENA

25.04.2024 10:51



Maa Bharti P. G. College, Kota

Mahaveer Nagar III, Sector-8

Kota-324005, Rajasthan

E-mail-mbpgcollege@yahoo.com

NOTICE

Ref. No.:

Date: 16th/Aug/2022

All students of M.Sc. Botany II and IV Semester are informed that their first midterm exam will commence from 22nd August 2022. Students should be regular during mid-term exams. Mid-term exam Time-Table is as follows:

Mid-Term II M.Sc. Sem. II

Time: 9:00 A.M.

Date	Paper
22 nd August 2022	Plant Ecology
23 rd August 2022	Plant Resource Utilization and Conservation
24 th August 2022	Cell and Molecular Biology
25 th August 2022	Biochemistry

M.Sc. Sem. IV

Time: 9:00 A.M.

Date	Paper
22 nd August 2022	Biotechnology and Biometrics
23 rd August 2022	Plant Morphology and Anatomy
24 th August 2022	Seed Biology and Plant Breeding
25 th August 2022	Advanced Plant Pathology II

Dr. Nivedita Sharma
Department of Botany
Head of Department
BOTANY
Maa Bharti P. G. College
Mahaveer Nagar-III, Kota (Raj.)



Shweta Saxena
Principal
मौ भारती स्वातंत्र्य महाविद्यालय
महावीर नगर तृतीय, कोटा

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P.G. College, Kota.

Department of Botany.

Semester - II

(2021)

Paper - I (Plant Ecology)

Mid Term - I

Total marks - (15)

(any 3)

Que 1.)

Illustrate the following

(a)

IGBP

(5)

(b)

UNEP

Que 2.)

Write short Note on Air Pollution (5)

Que 3.)

Explain Environmental Impact Assessment (5)

Que 4.)

Write short note on Carbon sequestration (5)

Que 5.)

What is the role of biodiversity in ecosystem functions and stability (10)

Maa Bharti P.G. College, Kota

Department of Botany

(2021)

Semester - II

Paper - I (Plant Ecology)

(any 3)

Mid Term - ~~II~~

Total marks (15)

Que 1.) Explain the role of biodiversity in Ecosystem function and stability

Que 2.) Write short note on Greenhouse gases

Que 3.) Explain
(a) IUCN
(b) WWF.

Que 4.) Write short note on Carbon Sequestration
OR

Que 5.) Explain in detail about terrestrial biodiversity hot spots -



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

85002-M.Sc. BOTANY SEM.-II EXAM - 2021

8511-PLANT ECOLOGY-(INT)

BATCH NO : 15083

MAX MARKS : 30

Sr.No.	Roll No.	Name	Father's Name	Category	Signature of Candidate
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	REGULAR	A Akausha
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	REGULAR	Anita Vaishnav
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	REGULAR	Ayushi Kharniwal
4	223174	BHARTI MALAV	PREM CHAND MALAV	REGULAR	Bharti Malav
5	223175	EKTA SOLANKI	M S SOLANKI	REGULAR	Ektu
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	REGULAR	Himanshi
7	223177	MAHIMA SEN	KHEMRAJ SEN	REGULAR	Mahima S
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	REGULAR	Meenakshi
9	223179	MOHIT AJMERA	MAHESH AJMERA	REGULAR	Mohit Ajmera
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	REGULAR	Monika
11	223181	NEELU SHARMA	LAL CHAND SHARMA	REGULAR	Neelu Sharma
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	REGULAR	Nikita Suman
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	REGULAR	Rameshwari
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	REGULAR	Shipra devlia
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	REGULAR	Shubham
16	223187	VAISHALI SINGH	SURENDRA SINGH	REGULAR	Vs
17	223188	YOGESH NAGAR	CHETARAM NAGAR	REGULAR	Yogesh

Total = 17

Present = 17

Absent = Nil



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

Paper-I

85002-M.Sc. BOTANY SEM.-II EXAM - 2022

8511-PLANT ECOLOGY-(INT)

Batch NO: 15083

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	27
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	27
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	27
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7	223177	MAHIMA SEN	KHEMRAJ SEN	30	27
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	30	26
9	223179	MOHIT AJMERA	MAHESH AJMERA	30	27
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	30	27
11	223181	NEELU SHARMA	LAL CHAND SHARMA	30	28
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14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	30	27
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	30	26
16	223187	VAISHALI SINGH	SURENDRA SINGH	30	27
17	223188	YOGESH NAGAR	CHETARAM NAGAR	30	27

Signature of Internal Examiner

Signature of External Examiner
DR. NIVEDITA SHARMA

Date of Submission.....

16-Sep-2022

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P. G. College, Kota
Department of Botany (2021)
Semester - II
Paper - II
Mid Term - I Total marks (15)

Que 1.) What are Mangroves & Coral Reefs (5)

Que 2.) Write short note on BSI (5)

Que 3.) What are Botanical Gardens
Explain in detail. (5)

Que 4.) Write short notes on following:-

- (a) DBT (Department of Biotechnology)
- (b) NBPGR (National Bureau of Plant-Genetic Resources)
- (c) CSIR (Council of Scientific and Industrial Research (CSIR))

Maa Bharti A.G. College, Kota

Department of Botany

(2021)

Semester - II

Paper - II

Mid Term - II

Total marks (15)

(any 3)

Que 1.) Write short note on

(a) DBT

(b) NBPR

(5)

Que 2.) Explain Ex Situ Conservation in detail (5)

Que 3.) Write short note on National Parks and Sanctuaries. (5)

Que 4.) Explain the Environmental status of plants based on IUCN (5)

OR

Que 5.) Write short note on (5)

(a) Green Revolution

(b) NWFPs

Page 2

 UNIVERSITY OF KOTA, KOTA 11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA 85002-M.Sc. BOTANY SEM.-II EXAM - 2021					
8512-PLANT RESOURCE UTILIZATION AND CONSERVATION-(INT)				BATCH NO : 15085	MAX MARKS : 30
Sr.No.	Roll No.	Name	Father's Name	Category	Signature of Candidate
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	REGULAR	Aakansha
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	REGULAR	Anita Vaishnav
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	REGULAR	Ayushi Kharniwal
4	223174	BHARTI MALAV	PREM CHAND MALAV	REGULAR	Bharti malav
5	223175	EKTA SOLANKI	M S SOLANKI	REGULAR	Ekt
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	REGULAR	Himanshi
7	223177	MAHIMA SEN	KHEMRAJ SEN	REGULAR	Mahima S.
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	REGULAR	Meenakshi
9	223179	MOHIT AJMERA	MAHESH AJMERA	REGULAR	Mohit Ajmera
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	REGULAR	Monika
11	223181	NEELU SHARMA	LAL CHAND SHARMA	REGULAR	Neelu Sharma
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	REGULAR	Nikita Suman
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	REGULAR	Ramshri Sharma
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	REGULAR	Shipra devlia
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	REGULAR	Shubham
16	223187	VAISHALI SINGH	SURENDRA SINGH	REGULAR	Vs
17	223188	YOGESH NAGAR	CHETARAM NAGAR	REGULAR	Yogesh - 15/12

Total = 17

Present = 17

Absent = Nil





UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

Paper - II

85002-M.Sc. BOTANY SEM.-II EXAM - 2022

8512-PLANT RESOURCE UTILIZATION AND CONSERVATION-(INT)

Batch NO: 15085

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	26
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	26
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	27
4	223174	BHARTI MALAV	PREM CHAND MALAV	30	27
5	223175	EKTA SOLANKI	M S SOLANKI	30	28
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	30	27
7	223177	MAHIMA SEN	KHEMRAJ SEN	30	26
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	30	26
9	223179	MOHIT AJMERA	MAHESH AJMERA	30	26
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	30	27
11	223181	NEELU SHARMA	LAL CHAND SHARMA	30	27
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	30	27
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	30	28
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	30	27
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	30	27
16	223187	VAISHALI SINGH	SURENDRA SINGH	30	27
17	223188	YOGESH NAGAR	CHETARAM NAGAR	30	27

Signature of Internal Examiner

Signature of External Examiner
DR. NIVEDITA SHARMA

Date of Submission.....

16-Sep-2022

Maa Bharti P.G. College, Kota.
Department of Botany.

Mid Term - I.

(2021)

Semester - IInd

Paper - III

Total marks (15)
Any (3)

- Q1.) What is Protein Sorting (5)
- Q2.) What is RFLP, Explain its uses (5)
- Q3.) Differentiate between FISH & GISH (5)
- Q4.) Explain r-RNA biosynthesis (5)
- OR
- Q5.) Explain the structure and functions (5)
of Microbodies, Golgi apparatus and ER.
- Q6.) Write short note on Confocal micro-
scopy.
- OR
- Q7.) Write short note on role of Cyclins
and Cyclin dependent kinases.

Maa Bharti P.G. College, Kota

Department of Botany (2021)

Mid-Term - II

Semester - IInd

Paper - III

Total marks (15)
(any 3) ⑤

Que (1) Explain Gene Expression in Chloroplast ⑤

Que (2) Write note on Cell Cycle ⑤

Que (3) Explain the structure & function of Cell wall. ⑤

Que (4) Explain Ion Carriers in Plasma membrane ⑤.

OR

Que (5) Write short note on Confocal Microscopy. OR

Que (6) Write structure and functions of

(a) Microbodies

(b) Golgi bodies-

(c) E.R (Endoplasmic Reticulum)

Page-3

UNIVERSITY OF KOTA, KOTA					
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA					
85002-M.Sc. BOTANY SEM.-II EXAM - 2021					
8513-CELL AND MOLECULAR BIOLOGY-(INT)				BATCH NO : 15087	MAX MARKS : 30
Sr.No.	Roll No.	Name	Father's Name	Category	Signature of Candidate
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	REGULAR	Aakash
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	REGULAR	Anita Vaishnav
3	223173	AYUSHI KHARNI WAL	SANJAY KHARNI WAL	REGULAR	Ayushi Kharniwal
4	223174	BHARTI MALAV	PREM CHAND MALAV	REGULAR	Bharti malav
5	223175	EKTA SOLANKI	M S SOLANKI	REGULAR	Ekt
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	REGULAR	Himanshi
7	223177	MAHIMA SEN	KHEMRAJ SEN	REGULAR	Mahima
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	REGULAR	Meenakshi
9	223179	MOHIT AJMERA	MAHESH AJMERA	REGULAR	Mohit Ajmera
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	REGULAR	Monika
11	223181	NEELU SHARMA	LAL CHAND SHARMA	REGULAR	Neelu Sharma
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	REGULAR	Nikita suman
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	REGULAR	Ramesh Sh.
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	REGULAR	Shipra devlia
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	REGULAR	Shubham gautam
16	223187	VAISHALI SINGH	SURENDRA SINGH	REGULAR	Vaishali Singh
17	223188	YOGESH NAGAR	CHETARAM NAGAR	REGULAR	Yogesh 11512

Total = 17

Re = 17

Ab = Nil

D



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

85002-M.Sc. BOTANY SEM.-II EXAM - 2022
8513-CELL AND MOLECULAR BIOLOGY-(INT)

Paper - III

Batch NO: 15087

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	27
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	27
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	28
4	223174	BHARTI MALAV	PREM CHAND MALAV	30	28
5	223175	EKTA SOLANKI	M S SOLANKI	30	27
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	30	27
7	223177	MAHIMA SEN	KHEMRAJ SEN	30	27
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	30	27
9	223179	MOHIT AJMERA	MAHESH AJMERA	30	27
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	30	28
11	223181	NEELU SHARMA	LAL CHAND SHARMA	30	27
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	30	27
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	30	28
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	30	27
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	30	27
16	223187	VAISHALI SINGH	SURENDRA SINGH	30	28
17	223188	YOGESH NAGAR	CHETARAM NAGAR	30	28

Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner
DR. NIVEDITA SHARMA

16-Sep-2022

Mao Bharti P.G. College, Kota.

Department of Botany. (2021)

Mid - Term - (I)

Semester - II

Paper - IV

Total marks (5)

Que (1) Write the structure & function of ATP (any 3) (5)

Que (2) Explain Principle of Thermodynamics (5)

Que (3) What is Redon reaction and function of lipid. - (5)

Que (4) Explain Regulation of Enzyme activity (5)
or

Que (5) Write short note on secondary metabolites (Steroids, alkaloids)

Que (6) Explain structure and biosynthesis of Amino acids and Lipids.
or

Que (7) Explain fatty acid biosynthesis (5)

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P.G. College, Kota

Department of Botany

(2021)

Mid Term - (2)

Semester - II

Paper - IV

Total marks (15)
(any 3)

Que (1) Explain Michaelis - Menten Equation (5)

Que (2) Explain the Concept of Holoenzyme (5)

Que (3) What are the Principles of Thermodynamics - (5)

Que (4) Explain all Secondary Metabolites (5)

Que (5) Write short note on :- (5)
any (2)

(a) Sulphur Metabolism

(b) Synthesis of membrane lipids

(c) Fatty Acid biosynthesis

OR

(5)

Que (6) Explain G.S - GOGAT System and Transamination



UNIVERSITY OF KOTA, KOTA
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

Page-4

85002-M.Sc. BOTANY SEM.-II EXAM - 2021

8514-BIOCHEMISTRY-(INT)

Sr.No.	Roll No.	Name	Father's Name	BATCH NO : 15089	MAX MARKS : 30
				Category	Signature of Candidate
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	REGULAR	<i>Aakash</i>
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	REGULAR	<i>Anita Vaishnav</i>
3	223173	AYUSHI KHARNI WAL	SANJAY KHARNI WAL	REGULAR	<i>Ayushi Kharniwal</i>
4	223174	BHARTI MALAV	PREM CHAND MALAV	REGULAR	<i>Bharti malav</i>
5	223175	EKTA SOLANKI	M S SOLANKI	REGULAR	<i>Ekt</i>
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	REGULAR	<i>Himanshi</i>
7	223177	MAHIMA SEN	KHEMRAJ SEN	REGULAR	<i>Mahima</i>
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	REGULAR	<i>Meenakshi</i>
9	223179	MOHIT AJMERA	MAHESH AJMERA	REGULAR	<i>Mohit Ajmera</i>
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	REGULAR	<i>Monika</i>
11	223181	NEELU SHARMA	LAL CHAND SHARMA	REGULAR	<i>Neelu Sharma</i>
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	REGULAR	<i>Nikita Suman</i>
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	REGULAR	<i>Rameshi Sharma</i>
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	REGULAR	<i>Shipradulia</i>
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	REGULAR	<i>Shubham</i>
16	223187	VAISHALI SINGH	SURENDRA SINGH	REGULAR	<i>VS</i>
17	223188	YOGESH NAGAR	CHETARAM NAGAR	REGULAR	<i>योगेश नागर</i>

Total = 17

Re = 17

As = Nil

②



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

85002-M.Sc. BOTANY SEM.-II EXAM - 2022

8514-BIOCHEMISTRY-(INT)

Paper-IV

Batch NO: 15089

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	28
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	27
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	27
4	223174	BHARTI MALAV	PREM CHAND MALAV	30	28
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8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	30	27
9	223179	MOHIT AJMERA	MAHESH AJMERA	30	27
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13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	30	27
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	30	26
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	30	27
16	223187	VAISHALI SINGH	SURENDRA SINGH	30	28
17	223188	YOGESH NAGAR	CHETARAM NAGAR	30	28

Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner
DR. NIVEDITA SHARMA

16-Sep-2022

11 B.L.anti P.G. College, Kota. (2020)

Maa Bhardi P.G. College, Kota. (2021)

Department of Botany.

Mid - Term - I

Semester - IV

Paper - I.

Time 1 hr)
MM (15)

Que (1) Explain Protein Profiling and its significance (5)

Que (2) Write short note on :- (5)
(a) Plasmid Vector
(b) Cosmid Vectors

Que (3) Write short note on I.P.R. (5)
(Intellectual Property Rights)

OR (5)
Que (4) Write short note on Germplasm conservation and Cryopreservation.

M. Bharti P.G. College, Kota (2020)

Maa Bharti P.G. College, Kota
Department of Botany. (2021)

Mid Term - 2

Semester - IV

Paper - 1.

Time 1hr
MM (15)

Que (1) Write short note on:- (3)

- (a) Biolistic
- (b) Microinjection
- (c) Electroporation

Que (2) Explain RAPD and RFLP.
in detail (5)

Que (3) Explain Genetic and Physical
Mapping of Genes. (5)

Maa Bharti P.G College, Kota
Mid-Term Attendance
M.Sc. Botany

Paper-1

Date:
Paper: 2531 - BIOTECHNOLOGY AND BIOMETRICS (IIT)
Semester: 25004 - M.Sc. Botany Semester - IV Exam - June - 2023

Sr. No.	Student's Name	Father's Name	Signature
1.	Aakansha Mittal	Rakesh Mittal	<u>Aakansha</u>
2.	Anita Vaishnav	Banwari Lal Vaishnav	<u>Anita Vaishnav</u>
3.	Ayushi Kharniwal	Sanjay Kharniwal	<u>Ayushi Kharniwal</u>
4.	Bharti Malav	Prem Chand Malav	<u>Bharti Malav</u>
5.	Ekta Solanki	M.S. Solanki	<u>Ekta</u>
6.	Himanshi Parihar	Govind Parihar	<u>Himanshi</u>
7.	Mahima sen	Khemraj Sen	<u>Mahima Sen</u>
8.	Meenakshi Rathore	Mohan Lal Rathore	<u>Meenakshi</u>
9.	Mohit Ajmera	Maheshj ajmera	<u>Mohit Ajmera</u>
10.	Monika Dhakad	Mahendra Singh Dhakad	<u>Monika</u>
11.	Neelu Sharma	Lal Chand Sharma	<u>Neelu sharma</u>
12.	Nikita Suman	Krishan Murari Suman	<u>Nikita Suman</u>
13.	Rameshwari Sharma	Bansi Dhar Sharma	<u>Rameshwari Sharma</u>
14.	Shipra Devlia	Chandra Shekhar Devliya	<u>Shipra devliya</u>
15.	Shubham Gautam	Praddhumn Gautam	<u>शुभम गौतम</u>
16.	Shubham Sharma	Satya Prakash Sharma	<u>Left</u>
17.	Vaishali Singh	Surendra Singh	<u>Vaishali Singh</u>
18.	Yogesh Nagar	Chetram Nagar	<u>योगेश नगर</u>
19.	Ayushi Rathore	Arvind Rathore	<u>NA</u>
20.	Anil Kumar Meena	Ram Charan Meena	<u>NA</u>
21.	Raveena Saini	Bhanwar Lal Saini	<u>NA</u>

Total = 17
Pr 2 17
Ab 2 17

SHWETA SAXENA

25.04.2024 10:51



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

Paper-I

85004-M.Sc. BOTANY SEMESTER-IV EXAM.-JUNE 2023

8531-BIOTECHNOLOGY AND BIOMETRICS-(INT)

Batch NO: 50898

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	28
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	28
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	28
4	223174	BHARTI MALAV	PREM CHAND MALAV	30	27
5	223175	EKTA SOLANKI	M S SOLANKI	30	29
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	30	27
7	223177	MAHIMA SEN	KHEMRAJ SEN	30	28
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	30	NA
9	223179	MOHIT AJMERA	MAHESH AJMERA	30	27
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	30	28
11	223181	NEELU SHARMA	LAL CHAND SHARMA	30	27
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	30	27
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	30	28
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	30	29
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	30	27
16	223187	VAISHALI SINGH	SURENDRA SINGH	30	27
17	223188	YOGESH NAGAR	CHETARAM NAGAR	30	27

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

21-Aug-2023

Maa Bharti P.G. College, Kolar
Department of Botany. (2021)

Mid Term - I
Semester - IV

Time 1hr
MM (15)

Paper - 2

Ques (1) Explain convergence and Evolution
of tree habit in Gymnosperm
and Angiosperms (5)

Ques (2) Explain Monopodial and Sympodial
growth (5)

Ques (3) Write short note on Various
types of Woods. (5)

OR

Explain Petiole and Carpel Morphology

Maa Bhavati P. G. College, Kota -
Department of Botany - (2021)

Mid - Term - II

Semester IV

Paper - II

Time 1hr
Marks (15)

Que 1.) Explain Types of Woods. (5)

Que 2.) Explain Epidermal Tissue System (5)

Que 3.) Explain types of leaves in Monocot
and dicot plants. (5)

OR.

Explain diversity in plant forms.

Maa Bharti P.G College, Kota
Mid-Term Attendance
M.Sc. Botany

Paper-2

Date:
Paper: 8532 - PLANT MORPHOLOGY AND ANATOMY - (INT)
Semester: 25004 - M.Sc. Botany SEM-IV Exam - June - 2023

Sr. No.	Student's Name	Father's Name	Signature
1.	Aakansha Mittal	Rakesh Mittal	Aakansha
2.	Anita Vaishnav	Banwari Lal Vaishnav	Anita Vaishnav
3.	Ayushi Kharniwal	Sanjay Kharniwal	Ayushi Kharniwal
4.	Bharti Malav	Prem Chand Malav	Bharti Malav
5.	Ekta Solanki	M.S. Solanki	Ekta
6.	Himanshi Parihar	Govind Parihar	Himanshi
7.	Mahima sen	Khemraj Sen	Mahima Sen
8.	Meenakshi Rathore	Mohan Lal Rathore	Meenakshi
9.	Mohit Ajmera	Maheshj ajmera	Mohit Ajmera
10.	Monika Dhakad	Mahendra Singh Dhakad	Monika
11.	Neelu Sharma	Lal Chand Sharma	Neelu Sharma
12.	Nikita Suman	Krishan Murari Suman	Nikita Suman
13.	Rameshwari Sharma	Bansi Dhar Sharma	Rameshwari Sharma
14.	Shipra Devlia	Chandra Shekhar Devliya	Shipra Devliya
15.	Shubham Gautam	Praddhumn Gautam	शुभम गौतम
16.	Shubham Sharma T.C	Satya Prakash Sharma	— left
17.	Vaishali Singh	Surendra Singh	Vaishali Singh
18.	Yogesh Nagar	Chetram Nagar	योगेश नागर
19.	Ayushi Rathore NA	Arvind Rathore	NA
20.	Anil Kumar Meena NA	Ram Charan Meena	NA
21.	Raveena Saini NA	Bhanwar Lal Saini	NA

Total = 17
A = 217
Abs = 17

SHWETA SAXENA

2023, 11:22

<https://www.univexam.info/Uok/ExaminerPanel/printpractical.php>

UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

Paper-II

85004-M.Sc. BOTANY SEMESTER-IV EXAM.-JUNE 2023

8532-PLANT MORPHOLOGY AND ANATOMY-(INT)

Batch NO: 50899

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	29
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	28
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	28
4	223174	BHARTI MALAV	PREM CHAND MALAV	30	28
5	223175	EKTA SOLANKI	M S SOLANKI	30	28
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	30	28
7	223177	MAHIMA SEN	KHEMRAJ SEN	30	28
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	30	NA
9	223179	MOHIT AJMERA	MAHESH AJMERA	30	27
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14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	30	29
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	30	26
16	223187	VAISHALI SINGH	SURENDRA SINGH	30	27
17	223188	YOGESH NAGAR	CHETARAM NAGAR	30	28

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

21-Aug-2023

SHWETA SAXENA

25.04.2024 10:51

P.G. College, Kota.
Maa Bhavati P.G. College, Kota

Department of Botany (2021)

Mid Term - I
Semester IV

Time 1hr
MH (15)

Paper - III

Que(1) Explain structure of seeds of important crop plants with special reference to Rajasthan. (8)

Que(2) Explain seed dispersal mechanism. (8)

Que(3) Write aims and objectives of plant breeding work in India. (8)

OR

Que(3) Explain clonal hybridization in plants. (8)

Maa Bhavati P. G. College, Kolar
Department of Botany. (2021)

Mid - Term - II
Semester - IV
Paper - III

Time 1 hr
15 min

Que 1.) What is seed bank and Gene bank. (5)

Que 2.) Types of seeds and Explain seed dormancy. (5)

Que 3.) Write short note on Plant breeding and Hybridization. (5)

Or
Write short note on Plant Introduction (5)

Maa Bharti P.G College, Kota
Mid-Term Attendance
M.Sc. Botany

Paper-3

Date:
Paper: 2533-SEED BIOLOGY AND PLANT BREEDING-(IIT)
Semester: 25004-M.Sc. Botany Semester -IV Exam-June 2023

Sr. No.	Student's Name	Father's Name	Signature
1.	Aakansha Mittal	Rakesh Mittal	Aakansha
2.	Anita Vaishnav	Banwari Lal Vaishnav	Anita Vaishnav
3.	Ayushi Kharniwal	Sanjay Kharniwal	Ayushi Kharniwal
4.	Bharti Malav	Prem Chand Malav	Bharti malav
5.	Ekta Solanki	M.S. Solanki	Ekta
6.	Himanshi Parihar	Govind Parihar	Himanshi
7.	Mahima sen	Khemraj Sen	Mahima Sen
8.	Meenakshi Rathore	Mohan Lal Rathore	Meenakshi
9.	Mohit Ajmera	Maheshj ajmera	Mohit Ajmera
10.	Monika Dhakad	Mahendra Singh Dhakad	Monika
11.	Neelu Sharma	Lal Chand Sharma	Neelu Sharmar.
12.	Nikita Suman	Krishan Murari Suman	Nikita Suman
13.	Rameshwari Sharma	Bansi Dhar Sharma	Rameshwar Sharma
14.	Shipra Devlia	Chandra Shekhar Devliya	Shipra devlia
15.	Shubham Gautam	Praddhumn Gautam	शुभम गौतम
16.	Shubham Sharma TC	Satya Prakash Sharma	Left
17.	Vaishali Singh	Surendra Singh	Vaishali Singh
18.	Yogesh Nagar	Chetram Nagar	योगेश नगर
19.	Ayushi Rathore NP	Arvind Rathore	NA
20.	Anil Kumar Meena NP	Ram Charan Meena	NA
21.	Raveena Saini NP	Bhanwar Lal Saini	NA

W

Total = 17
Pr = 17
Ab = Nil

SHWETA SAXENA



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

Page - III.

85004-M.Sc. BOTANY SEMESTER-IV EXAM.-JUNE 2023

8533-SEED BIOLOGY AND PLANT BREEDING-(INT)

Batch NO: 50901

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AANKANSHA MITTAL	RAKESH MITTAL	30	29
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	27
3	223173	AYUSHI KHARNI WAL	SANJAY KHARNI WAL	30	27
4	223174	BHARTI MALAV	PREM CHAND MALAV	30	27
5	223175	EKTA SOLANKI	M S SOLANKI	30	28
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	30	27
7	223177	MAHIMA SEN	KHEMRAJ SEN	30	28
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	30	NA
9	223179	MOHIT AJMERA	MAHESH AJMERA	30	26
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	30	27
11	223181	NEELU SHARMA	LAL CHAND SHARMA	30	27
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	30	27
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	30	28
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	30	29
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	30	27
16	223187	VAISHALI SINGH	SURENDRA SINGH	30	27
17	223188	YOGESH NAGAR	CHETARAM NAGAR	30	27

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

21-Aug-2023

Maa Bharti P.G. College, Kota -
Department of Botany - (2021)
Mid - Term - I
Semester - IV
Paper - IV
Time $\frac{1hr}{MM}$ (15)

Que(1) Write short note on Plant
Disease forecasting.

Que(2) Explain Crown Gall disease.

Que(3) Explain Bunchy Top of Banana
or

Tobacco Necrosis.

Maa Bharti P.G. College, Kota
Department of Botany. (2021)

Mid - Term - II

Semester - IV

Paper - IV

Time /hs
MM (15)

Que ① Explain Morphology and Anatomy
of Nematodes. ⑤

Que ② Differentiate between Active and
Acquired Immunity. ⑤

Que ③ Explain following diseases 1-⑤

① Ear Cockle of wheat -

② Tundu disease of wheat -

Maa Bharti P.G College, Kota
Mid-Term Attendance
M.Sc. Botany

Paper - IV

Date:

Paper: ... 2534 - (A) ADV. PLANT PATHOLOGY - II - (IHT)

Semester: ... 85344 - M.Sc. Botany Semester - IV Exam - June - 2023

Sr. No.	Student's Name	Father's Name	Signature
1	Aakansha Mittal	Rakesh Mittal	Aakansha
2	Anita Vaishnav	Banwari Lal Vaishnav	Anita Vaishnav
3	Ayushi Kharniwal	Sanjay Kharniwal	Ayushi Kharniwal
4	Bharti Malav	Prem Chand Malav	Bharti Malav
5	Ekta Solanki	M.S. Solanki	Ekta
6	Himanshi Parihar	Govind Parihar	Himanshi
7	Mahima sen	Khemraj Sen	Mahima Sen
8	Meenakshi Rathore	Mohan Lal Rathore	Meenakshi
9	Mohit Ajmera	Maheshj ajmera	Mohit Ajmera
10	Monika Dhakad	Mahendra Singh Dhakad	Monika
11	Neelu Sharma	Lal Chand Sharma	Neelu Sharma
12	Nikita Suman	Krishan Murari Suman	Nikita Suman
13	Rameshwari Sharma	Bansi Dhar Sharma	Rameshwari Sharma
14	Shipra Devlia	Chandra Shekhar Devliya	Shipra Devliya
15	Shubham Gautam	Praddhumn Gautam	Shubham Gautam
16	Shubham Sharma TC	Satya Prakash Sharma	Left
17	Vaishali Singh	Surendra Singh	Vaishali Singh
18	Yogesh Nagar	Chetram Nagar	Yogesh Nagar
19	Ayushi Rathore NP	Arvind Rathore	NP
20	Anil Kumar Meena NP	Ram Charan Meena	NP
21	Raveena Saini NP	Bhanwar Lal Saini	NP

Total = 17

Re = 17

AB = NP

SHWETA SAXENA

25.04.2024 10:51



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

Paper - IV

85004-M.Sc. BOTANY SEMESTER-IV EXAM.-JUNE 2023

8534-(A) ADV. PLANT PATHOLOGY-II-(INT)

Batch NO: 50902

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	29
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	27
3	223173	AYUSHI KHARNI WAL	SANJAY KHARNI WAL	30	28
4	223174	BHARTI MALAV	PREM CHAND MALAV	30	27
5	223175	EKTA SOLANKI	M S SOLANKI	30	28
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	30	27
7	223177	MAHIMA SEN	KHEMRAJ SEN	30	NA
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	30	27
9	223179	MOHIT AJMERA	MAHESH AJMERA	30	28
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	30	28
11	223181	NEELU SHARMA	LAL CHAND SHARMA	30	28
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	30	29
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	30	29
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	30	27
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	30	27
16	223187	VAISHALI SINGH	SURENDRA SINGH	30	27
17	223188	YOGESH NAGAR	CHETARAM NAGAR	30	27

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

21-Aug-2023



Maa Bharti P. G. College, Kota

Mahaveer Nagar III, Sector-8

Kota 324005, Rajasthan

E-mail: mbpgcollege@yahoo.com

NOTICE

Ref. No.:

Date: 10/11/2022

All students of M.Sc. Botany I and III Semester are informed that their first midterm exam will commence from 18th November 2022. Students should be regular during mid-term exams. Mid-term exam Time-Table is as follows:

Mid-Term I

M.Sc. Sem. I

Time: 9:00 A.M.

Date	Paper
18 th November 2022	Biology and diversity of Lower plants
19 th November 2022	Pteridophyta, Gymnosperm and Paleobotany
21 st November 2022	Plant Physiology
22 nd November 2022	Microbiology and Plant Pathology

M.Sc. Sem. III

Time: 9:00 A.M.

Date	Paper
18 th November 2022	Plant Development and Reproduction
19 th November 2022	Cytogenetics
21 st November 2022	Taxonomy of Angiosperms
22 nd November 2022	Advanced plant Pathology I

Dr. Nivedita Sharma
Department of Botany
Maa Bharti P. G. College
Mahaveer Nagar III, Kota (Raj.)



Shweta Saxena
Principal

मौ भारती स्नातकोत्तर महाविद्यालय
महावीर नगर तृतीय, कोटा

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25.04.2024 10:51



Maa Bharti P. G. College, Kota

Mahaveer Nagar III, Sector-8

Kota 324005, Rajasthan

E-mail-mbpgcollege@yahoo.com

NOTICE

Ref. No.:

Date: 13 Feb 2023

All students of M.Sc. Botany I and III Semester are informed that their first midterm exam will commence from 20th February 2023. Students should be regular during mid-term exams. Mid-term exam Time-Table is as follows:

Mid-Term II

M.Sc. Sem. I

Time: 9:00 A.M.

Date	Paper
20 th February 2023	Biology and diversity of Lower plants
21 st February 2023	Pteridophyta, Gymnosperm and Paleobotany
22 nd February 2023	Plant Physiology
23 rd February 2023	Microbiology and Plant Pathology

M.Sc. Sem. III

Time: 9:00 A.M.

Date	Paper
20 th February 2023	Plant Development and Reproduction
21 st February 2023	Cytogenetics
22 nd February 2023	Taxonomy of Angiosperms
23 rd February 2023	Advanced plant Pathology 1

Dr. Nivedita Sharma
Department of Botany

Maa Bharti P. G. College
Mahaveer Nagar III, Kota (Raj.)



Shweta Saxena
Principal

मौ भारती स्नातकोत्तर महाविद्यालय
महावीर नगर तृतीय, कोटा

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P.G. College, Kota.
Department of Botany. (2020)

Mid Term - Ist.

Mid Term - I

Semester - I.

Paper - 1

MM (15)

Que 1.) Give a detailed account of classification of Algae.

Que 2.) Give a brief account of Pigment and reserve food in Algae and their role in classification of Algae.

Que 3.) Explain thallus organisation and reproduction in *Hydrodictyon*.

Maa Bharti PG College, Kota (2022)

M.Sc. (Botany) Ist Sem. [INTERNAL EXAM-II]

Paper-I : Algae, Fungi & Bryophytes (2022)

Q1] Write short notes on — (Any two)

- 1.) Heterothallism
- 2.) Heterokaryosis
- 3.) Parasexuality

Q2] Give an account of different mode of nutrition in fungi with example.

Q3] Describe the life-cycle of *Melampsora*.

OR

Explain reproduction and structure of fruiting body in *Polyphorus*.

Biology and Diversity of lower plants.

MAA BHARTI P.G. COLLEGE, M.N. III KOTA

22-23
23-24

Paper - I

MIDTERM AWARD LIST 2022-23

MID Term II

NAME OF FACULTY				
CLASS	M.SC. I SEMESTER 2022-23			
SUBJECT	BOTANY			
S.N.	STUDENTS NAME	FATHER'S NAME	Attendance	
1	ADITI SHAMA	VIJAY DEEP SHARMA	Aditi	
2	ANKITA BAIRAGI	MOOL CHAND BAIRAGI	Ankita	
3	ASHU GOCHER	RAJESH KUMAR GOCHER	Ashu	
4	DIVYANSH SHRINGI	YOGESH SHRINGI	Divyansh	
5	DIVYANSHI KUMARI	RAJ KUMAR	Divyanshi	
6	HARISH VERMA	SATYANARAYAN VERMA	Harish	
7	KIRAN MEENA	SATYANARAYAN MEENA	Kiran	
8	MAYA KANVAR	RANVEER SINGH	Maya	
9	POOJA MEENA	SURAJMAL MEENA	Pooja	
10	RAHUL KUMAR DHAKAR	DINESH KUMAR DHAKAR	Rahul	
11	RASHMI SUMAN	DINESH SUMAN	Rashmi	
12	SEENA NAGAR	DHANRAJ NAGAR	सीना नगर	
13	SHUBHAM DEL	VIMAL KUMAR MEENA	शुभम	
14	SHWETA NAGAR T.C	YOGENDRA NAGAR	Shweta	
15	SONAM MEENA	SHIVRAJ MEENA	Sonam	
16	SURENDRA NAGAR	GHAN SHYAM NAGAR	Surendra	
17	UMESH MEENA	TULSIRAM MEENA	उमेश	
18	YAMINI ACHARYA	BALMUKUND ACHARYA	यामिनी	
19	YASH KUMAR BAIRWA	OM PRAKASH BAIRWA	yashgaurav	
20	ASHWINI BHADANA	PRATAP LAL GUJAR	Ashwini	
21	MANISH BAIRWA	MADAN LAL BAIRWA	Manish	

Present 20
Absent 01
Total 20

SHWETA SAXENA

25.04.2024 10:51



2023 I 4 II Sem
Paper-I

UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

12101-M.SC. BOTANY I-SEMESTER EXAM.DEC.-2022 (NEW SCHEME)
12101-BIOLOGY AND DIVERSITY OF LOWER PLANTS-(INT)

Batch NO: 36217

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	238321	ADITI SHARMA	VIJAY DEEP SHARMA	30	29
2	238322	ANKITA BAIRAGI	MOOL CHAND BAIRAGI	30	29
3	238323	ASHU GOCHER	RAJESH KUMAR GOCHER	30	28
4	238324	ASHWINI BHADANA	PRATAP LAL GUJAR	30	28
5	238325	DIVYANSHI SHRINGI	YOGESHI SHRINGI	30	28
6	238326	DIVYANSHI KUMARI	RAJ KUMAR	30	28
7	238327	HARISH VERMA	SATYANARAYAN VERMA	30	28
8	238328	KIRAN MEENA	SATYANARAYAN MEENA	30	28
9	238329	MAYA KANVAR	RANVEER SINGH	30	29
10	238330	POOJA MEENA	SURAJMAL MEENA	30	28
11	238331	RAHUL KUMAR DHAKAR	DINESH KUMAR DHAKAR	30	28
12	238332	RASHMI SUMAN	DINESH SUMAN	30	27
13	238333	SEENA NAGAR	DHANRAJ NAGAR	30	27
14	238334	SHUBHAM DEL	VIMAL KUMAR MEENA	30	28
15	238335	SONAM MEENA	SHIVRAJ MEENA	30	27
16	238336	SURENDRA NAGAR	GHAN SHYAM NAGAR	30	28
17	238337	UMESH MEENA	TULSIRAM MEENA	30	28
18	238338	YAMINI ACHARYA	BALMUKUND ACHARYA	30	27
19	238339	YASH KUMAR BAIRWA	OM PRAKASH BAIRWA	30	28
20	238340	MANISH BAIRWA	MADAN LAL BAIRWA	30	28

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

18-Apr-2023

SHWETA SAXENA

25.04.2024 10:51

Mid-term - I

2022 September

M.Sc I Sem

(2022)
M.M. 15
Mid Term - I

Paper - II [Pteridophyta, Gymnosperms,
Palaeobotany]

A Short Questions $1 \times 5 = 5 \text{ marks}$

1. Which type of endosperm present in the Gymnosperm?

2. Why Gymnosperm is called naked seed plant?

3. Write any two general characters of the Gymnosperm.

4. Write the classification of Ginkgo and Taxus.

5. Which type of root present in Anetum?

Middle question $2 \frac{1}{2} \times 2 = 5 \text{ marks}$

1. Write about the economic importance of Gymnosperm.

2. Write about the distribution of Gymnosperm in India.

Large question 5 marks

Write about the development of male gametophyte in Ginkgo and development of female gametophyte in Taxus.

Maa Bharti P.G. college

(2022)

M.Sc Botany I Sem

MM

Paper-II Pteridophyta, Gymna

(15)

Palaeobotany

(2022)

Mid Term -II

Q. Write about general characters and classification of pteridophyta. - (5)

Q. Explain only with diagram :-

a) Stele system

2½

b) Telome theory

2½

Q. Give a comparative account with Psilopsida and Sphenopsida

3

Q. Write about reproduction of Pteris and Gleichenia

-(2)

MAA BHARTI P.G. COLLEGE, M.N. III KOTA

MIDTERM ATTENDANCE LIST 2022-23

NAME OF FACULTY		M.Sc. II Sem 2023-24		
CLASS		M.SC. I SEMESTER 2022-23		
SUBJECT		BOTANY		
S.N.	STUDENTS NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	ADITI SHAMA	VIJAY DEEP SHARMA	-	Aditi Sharma
2	ANKITA BAIRAGI	MOOL CHAND BAIRAGI	-	Ankit
3	ASHU GOCHER	RAJESH KUMAR GOCHER	-	Ashu Gocher
4	DIVYANSH SHRINGI	YOGESH SHRINGI	-	Divyansh
5	DIVYANSHI KUMARI	RAJ KUMAR	-	Divya
6	HARISH VERMA	SATYANARAYAN VERMA	-	Harish
7	KIRAN MEENA	SATYANARAYAN MEENA	-	Kiran meena
8	MAYA KANVAR	RANVEER SINGH	-	माया कान्वर
9	POOJA MEENA	SURAJMAL MEENA	-	Pooja meena
10	RAHUL KUMAR DHAKAR	DINESH KUMAR DHAKAR	-	Rahul
11	RASHMI SUMAN	DINESH SUMAN	-	Rashmi
12	SEENA NAGAR	DHANRAJ NAGAR	-	श्रीना नगर
13	SHUBHAM DEL	VIMAL KUMAR MEENA	-	शुभम देव
14	SONAM MEENA	SHIVRAJ MEENA	-	Sonam
15	SURENDRA NAGAR	GHAN SHYAM NAGAR	-	Surendra
16	UMESH MEENA	TULSIRAM MEENA	-	उमेश मीना
17	YAMINI ACHARYA	BALMUKUND ACHARYA	-	यामिनी
18	YASH KUMAR BAIRWA	OM PRAKASH BAIRWA	-	yashgaurav
19	Ashwini Shadane	Bhatap Lal Gujar	-	Ashwini
20	Manish Bairwa	Madan Lal Bairwa	-	Manish

Total Students = 20

Present = 20

Absent = Nil

SHWETA SAXENA

25.04.2024 10:51



Paper-II

UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

12101-M.SC. BOTANY I-SEMESTER EXAM.DEC.-2022 (NEW SCHEME)

12102-PTERIDOPHYTA GYMNOSPERM AND PALEOBOTANY-(INT)

Batch NO: 36219

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	238321	ADITI SHARMA	VIJAY DEEP SHARMA	30	29
2	238322	ANKITA BAIRAGI	MOOL CHAND BAIRAGI	30	28
3	238323	ASHU GOCHER	RAJESH KUMAR GOCHER	30	28
4	238324	ASHWINI BHADANA	PRATAP LAL GUJAR	30	27
5	238325	DIVYANSH SHRINGI	YOGESH SHRINGI	30	28
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8	238328	KIRAN MEENA	SATYANARAYAN MEENA	30	29
9	238329	MAYA KANVAR	RANVEER SINGH	30	28
10	238330	POOJA MEENA	SURAJMAL MEENA	30	29
11	238331	RAHUL KUMAR DHAKAR	DINESH KUMAR DHAKAR	30	28
12	238332	RASHMI SUMAN	DINESH SUMAN	30	27
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19	238339	YASH KUMAR BAIRWA	OM PRAKASH BAIRWA	30	28
20	238340	MANISH BAIRWA	MADAN LAL BAIRWA	30	27

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

18-Apr-2023

SHWETA SAXENA

25.04.2024 10:51

Maa Bhavati P. G. College, Kota. (2022)
Department of Botany. (2022)

Semester - I

Mid Term - I

Paper - III
MM. (15)

Ques.) Illustrate the following (5)

(a) Soil Plant Atmosphere Continuum.
(SPAC)

(b) Ascent of Sap

Que2.) Differentiate between Symplast & Apoplast (5)

Que3.) Differentiate between Adhesive and Cohesive force. Write the name of scientists who proposed this theory. (5)

M.Sc. I Sem (Paper-III)

M.B.P.G. College
Mid Term - II

Time: $2\frac{1}{2}$ hr.
(2022)

M.=30

Attempt any six questions.

(2022)

Q.1 Write notes on: (Attempt any two)

a) Structure of photosynthetic pigments

b) Non-cyclic and cyclic transport of electrons

c) Calvin cycle

d) Differentiate between C_3 and C_4 plants.

Q.2 Explain the synthesis and utilization of high energy compounds.

Q.3 Write a detailed note on ATP driven active transport.

Q.4 Write notes on:

a) Regulation of ~~B~~ RUBISCO activity

b) CAM pathway

Q.5 Explain with diagram: (Attempt any two)

1) PPP or Hexoses Monophosphate shunt.

2) Gluconeogenesis

3) Oxidative phosphorylation

Q.6 Explain in detail TCA cycle.
Add a note on an amphibolic nature.

Q.7 Explain the glyoxylate pathway and chlororespiration.

Plant Physiology

last physiology
paper - 111

MAA BHARTI P.G. COLLEGE, M.N. III KOTA

MIDTERM AWARD LIST 2022-23

NAME OF FACULTY					
CLASS		M.SC. I SEMESTER 2022-23			
SUBJECT		BOTANY			
S.N.	STUDENTS NAME	FATHER'S NAME	Attendance		
1	ADITI SHAMA	VIJAY DEEP SHARMA	Aditi		
2	ANKITA BAIRAGI	MOOL CHAND BAIRAGI	Ankita		
3	ASHU GOCHER	RAJESH KUMAR GOCHER	Ashu gocher		
4	DIVYANSH SHRINGI	YOGESH SHRINGI	Divyansh		
5	DIVYANSHI KUMARI	RAJ KUMAR	Divya		
6	HARISH VERMA	SATYANARAYAN VERMA	Harish		
7	KIRAN MEENA	SATYANARAYAN MEENA	Kiran		
8	MAYA KANVAR	RANVEER SINGH	Maya		
9	POOJA MEENA	SURAJMAL MEENA	Pooja		
10	RAHUL KUMAR DHAKAR	DINESH KUMAR DHAKAR	Rahul		
11	RASHMI SUMAN	DINESH SUMAN	Rashmi		
12	SEENA NAGAR	DHANRAJ NAGAR	शीना नागर		
13	SHUBHAM DEL	VIMAL KUMAR MEENA	शुभम		
14	SHWETA NAGAR X	YOGENDRA NAGAR	T.C		
15	SONAM MEENA	SHIVRAJ MEENA	Sonam		
16	SURENDRA NAGAR	GHAN SHYAM NAGAR	Surendra		
17	UMESH MEENA	TULSIRAM MEENA	उमेश		
18	YAMINI ACHARYA	BALMUKUND ACHARYA	यामिनी		
19	YASH KUMAR BAIRWA	OM PRAKASH BAIRWA	Yash kumar		
20	ASHWINI BHADANA	PRATAP LAL GUTAR	Ashwin		
21	MANISH BAIRWA	MADAN LAL BAIRWA	Manish		

Present - 20
Absent - 1
Total - 20

SHWETA SAXENA

25.04.2024 10:51



Paper - III

UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

12101-M.SC. BOTANY I-SEMESTER EXAM.DEC.-2022 (NEW SCHEME)
12103-PLANT PHYSIOLOGY-(INT)

Batch NO: 36221

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	238321	ADITI SHARMA	VIJAY DEEP SHARMA	30	28
2	238322	ANKITA BAIRAGI	MOOL CHAND BAIRAGI	30	28
3	238323	ASHU GOCHER	RAJESH KUMAR GOCHER	30	28
4	238324	ASHWINI BHADANA	PRATAP LAL GUJAR	30	29
5	238325	DIVYANSH SHRINGI	YOGESH SHRINGI	30	28
6	238326	DIVYANSHI KUMARI	RAJ KUMAR	30	27
7	238327	HARISH VERMA	SATYANARAYAN VERMA	30	28
8	238328	KIRAN MEENA	SATYANARAYAN MEENA	30	29
9	238329	MAYA KANVAR	RANVEER SINGH	30	28
10	238330	POOJA MEENA	SURAJMAL MEENA	30	28
11	238331	RAHUL KUMAR DHAKAR	DINESH KUMAR DHAKAR	30	28
12	238332	RASHMI SUMAN	DINESH SUMAN	30	28
13	238333	SEENA NAGAR	DHANRAJ NAGAR	30	28
14	238334	SHUBHAM DEL	VIMAL KUMAR MEENA	30	27
15	238335	SONAM MEENA	SHIVRAJ MEENA	30	29
16	238336	SURENDRA NAGAR	GHAN SHYAM NAGAR	30	28
17	238337	UMESH MEENA	TULSIRAM MEENA	30	28
18	238338	YAMINI ACHARYA	BALMUKUND ACHARYA	30	27
19	238339	YASH KUMAR BAIRWA	OM PRAKASH BAIRWA	30	27
20	238340	MANISH BAIRWA	MADAN LAL BAIRWA	30	28

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

18-Apr-2023

Maa Bharti P.G. College, Kota

Maa Bharti P.G. College, Kota (2022)
Department of Botany.
MSc. Semester - 1st (2020)
Mid Term. Ist

Paper - IV

Total marks (15)
(Any 3)

- Que 1.) Write short Note on Isolation and Purification of Virus. (5)
- Que 2.) What are Monoclonal Antibody (5)
- Que 3.) Write short note on Archaeobacteria and Eubacteria. (5)
- Que 4.) Explain Plant Disease Management (5)

Date: _____
M.B. P.G. College. (2022)
Mid Term - IInd. Total marks (15)
M.Sc — Semester Ist (2022)
BOTANY (Paper - IV) Microbiology
and Plant Path

Que (1) Write in brief about - Tundu disease of Wheat (2)

Que (2) Explain Root - Knot of Vegetables. (2)

Que (3) Short note on Green Ear of Bajra
or
Leger of Bajra. (3)

Que (4) Explain Downey / Powdery Mildew of Grapes. (2)

Que (5) Explain (Rust / Smut) disease of Wheat - (3)

Que (6) Short note on Wilt of Cotton. (3)

Microbiology and Plant Pathology
MAA BHARTI P.G. COLLEGE, M.N. III KOTA

MIDTERM AWARD LIST 2022-23

Mid-term - II

aper - IV

NAME OF FACULTY					
CLASS		M.SC. I SEMESTER 2022-23			
SUBJECT		BOTANY			
S.N.	STUDENTS NAME	FATHER'S NAME			
1	ADITI SHAMA	VIJAY DEEP SHARMA	Aditi		
2	ANKITA BAIRAGI	MOOL CHAND BAIRAGI	Ankita		
3	ASHU GOCHER	RAJESH KUMAR GOCHER	Ashu		
4	DIVYANSH SHRINGI	YOGESH SHRINGI	Divyansh		
5	DIVYANSHI KUMARI	RAJ KUMAR	Divya		
6	HARISH VERMA	SATYANARAYAN VERMA	Harish		
7	KIRAN MEENA	SATYANARAYAN MEENA	Kiran		
8	MAYA KANVAR	RANVEER SINGH	Maya		
9	POOJA MEENA	SURAJMAL MEENA	Pooja		
10	RAHUL KUMAR DHAKAR	DINESH KUMAR DHAKAR	Rahul		
11	RASHMI SUMAN	DINESH SUMAN	Rashmi		
12	SEENA NAGAR	DHANRAJ NAGAR	शीना नागर		
13	SHUBHAM DEL	VIMAL KUMAR MEENA	शुभम		
14	SHWETA NAGAR	YOGENDRA NAGAR	Shweta		
15	SONAM MEENA	SHIVRAJ MEENA	Sonam		
16	SURENDRA NAGAR	GHAN SHYAM NAGAR	Surendra		
17	UMESH MEENA	TULSIRAM MEENA	उमेश		
18	YAMINI ACHARYA	BALMUKUND ACHARYA	यमिनी		
19	YASH KUMAR BAIRWA	OM PRAKASH BAIRWA	Yashgaurav		
20	ASHWINI BHADANA	PRATAP LAL GUJAR	Ashwini		
21	MANISH BAIRWA	MADAN LAL BAIRWA	Manish		

Present - 20

Abs - 01

SHWETA SAXENA

Total - 20

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H/O



Paper-IV

UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

12101-M.SC. BOTANY I-SEMESTER EXAM.DEC.-2022 (NEW SCHEME)

12104-MICROBIOLOGY AND PLANT PATHOLOGY-(INT)

Batch NO: 36223

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	238321	ADITI SHARMA	VIJAY DEEP SHARMA	30	29
2	238322	ANKITA BAIRAGI	MOOL CHAND BAIRAGI	30	28
3	238323	ASHU GOCHER	RAJESH KUMAR GOCHER	30	27
4	238324	ASHWINI BHADANA	PRATAP LAL GUJAR	30	28
5	238325	DIVYANSH SHRINGI	YOGESH SHRINGI	30	28
6	238326	DIVYANSHI KUMARI	RAJ KUMAR	30	27
7	238327	HARISH VERMA	SATYANARAYAN VERMA	30	28
8	238328	KIRAN MEENA	SATYANARAYAN MEENA	30	29
9	238329	MAYA KANVAR	RANVEER SINGH	30	28
10	238330	POOJA MEENA	SURAJMAL MEENA	30	27
11	238331	RAHUL KUMAR DHAKAR	DINESH KUMAR DHAKAR	30	28
12	238332	RASHMI SUMAN	DINESH SUMAN	30	27
13	238333	SEENA NAGAR	DHANRAJ NAGAR	30	27
14	238334	SHUBHAM DEL	VIMAL KUMAR MEENA	30	29
15	238335	SONAM MEENA	SHIVRAJ MEENA	30	29
16	238336	SURENDRA NAGAR	GHAN SHYAM NAGAR	30	28
17	238337	UMESH MEENA	TULSIRAM MEENA	30	28
18	238338	YAMINI ACHARYA	BALMUKUND ACHARYA	30	28
19	238339	YASH KUMAR BAIRWA	OM PRAKASH BAIRWA	30	28
20	238340	MANISH BAIRWA	MADAN LAL BAIRWA	30	28

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

18-Apr-2023

SHWETA SAXENA

25.04.2024 10:51

Mao Bhairi P.G. College, Kola
Department of Botany (2022)
Mid Term - I

Semester - III (Paper - I)

Paper - I. (Plant Development & Reproduction) mm (15)

Q → 1 write short note on 'RAM'

Q → 2 write short note on 'embryo culture'

Q → 3 Describe the 'microsporogenesis'

Maq Bhardi P. G. College, Kolar

Maq Bhardi P. G. College, Kolar

Department of Botany (2022)

Mid Term - II

Semester - III (Paper - I)

marks (15)

Time (1 hr)

Q → 1 write a brief note on 'Shoot Apical meristem'

Q → 2 Explain the mechanism of 'pollination' giving examples.

Q → 3 write Note on.

(i) Structure of seed.

(ii) Apomixis

Maq Bhardi P. G. College, Kolar

Department of Botany (2022)

Mid Term - II

Semester - III (Paper - I)

max (15)

Time (1 hr)

Q → 1 write a brief note on 'Shoot Apical meristem'

Q → 2 Explain the mechanism of 'Pollination' giving examples.

Q → 3 write Note on.
(i) Structure of seed.

(ii) Apomixis

Maa Bharti P.G College, Kota
Mid-Term Attendance
M.Sc. Botany

Paper-I

Date:
 Paper: Plant Development and Reproduction.
 Semester: 2503 - M.Sc. Botany Semester - III Exam - 2022

Sr. No.	Student's Name	Father's Name	Signature
1.	Aakansha Mittal	Rakesh Mittal	Aakansha
2.	Anita Vaishnav	Banwari Lal Vaishnav	Anita Vaishnav
3.	Ayushi Kharniwal	Sanjay Kharniwal	Ayushi Kharniwal
4.	Bharti Malav	Prem Chand Malav	Bharti malav
5.	Ekta Solanki	M.S. Solanki	Ekta
6.	Himanshi Parihar	Govind Parihar	Himanshi
7.	Mahima sen	Khemraj Sen	Mahima Sen
8.	Meenakshi Rathore	Mohan Lal Rathore	meenakshi
9.	Mohit Ajmera	Maheshj ajmera	Mohit Ajmera.
10.	Monika Dhakad	Mahendra Singh Dhakad	Monika
11.	Neelu Sharma	Lal Chand Sharma	Neelu Sharma.
12.	Nikita Suman	Krishan Murari Suman	Nikita Suman
13.	Rameshwari Sharma	Bansi Dhar Sharma	Rameshwari Sharma
14.	Shipra Devlia	Chandra Shekhar Devliya	Shipra Devlia.
15.	Shubham Gautam	Praddhumn Gautam	शुभम गौतम
16.	Shubham Sharma	Satya-Prakash Sharma	
17.	Vaishali Singh	Surendra Singh	Vaishali Singh.
18.	Yogesh Nagar	Chetram Nagar	योगेश नागर
19.	Ayushi Rathore	Arvind Rathore	
20.	Anil Kumar Meena	Ram Charan Meena	
21.	Raveena Saini	Bhanwar Lal Saini	

Total = 17
 M = 17
 AS = 2

SHWETA SAXENA

25.04.2024 10:51



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

Paper - I

85003-M.Sc. BOTANY SEMESTER-III EXAM.-DEC.-2022
8521-PLANT DEVELOPMENT AND REPRODUCTION-(INT)

Batch NO: 36744

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	28
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	27
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	28
4	223174	BHARTI MALAV	PREM CHAND MALAV	30	27
5	223175	EKTA SOLANKI	M S SOLANKI	30	29
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	30	28
7	223177	MAHIMA SEN	KHEMRAJ SEN	30	27
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	30	27
9	223179	MOHIT AJMERA	MAHESH AJMERA	30	28
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	30	28
11	223181	NEELU SHARMA	LAL CHAND SHARMA	30	28
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	30	28
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	30	29
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	30	28
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	30	27
16	223187	VAISHALI SINGH	SURENDRA SINGH	30	28
17	223188	YOGESH NAGAR	CHETARAM NAGAR	30	28

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

18-Apr-2023

Maa Bharti P.G. College, Kota
Department of Botany -
Mid Term - I (2022)
Semester - III
Paper - II

max 15
Time 1hr

- Q 1 write a detailed note on RNA splicing.
- Q 2. Write short note on
i) genetic markers.
ii) catabolite repression.
- Q 3 write short note on "flow cytometry"

Maa Bharti P.G. College, Kota.

Department - of Botany
Mid Term - II (2022)

Semester - III

Paper - II

mm (15)

Time (1hr)

Q → 1 Write Short Note ON "cot Curve"

Q → 2 Write Short Note ON "Excision Repair"

Q → 3 write a detailed Note ON computer Assisted chromosome analysis.

Maa Bharti P.G College, Kota
Mid-Term Attendance
M.Sc. Botany

Paper - 2

Date:

Paper: Cytogenetics

Semester: 25.06.22 - M.Sc. Botany Semester - III Exam 2022-23

Sr. No.	Student's Name	Father's Name	Signature
1.	Aakansha Mittal	Rakesh Mittal	<u>Aakansha</u>
2.	Anita Vaishnav	Banwari Lal Vaishnav	<u>Anita Vaishnav</u>
3.	Ayushi Kharniwal	Sanjay Kharniwal	<u>Ayushi Malav</u>
4.	Bharti Malav	Prem Chand Malav	<u>Bharti malav</u>
5.	Ekta Solanki	M.S. Solanki	<u>(Solanki)</u>
6.	Himanshi Parihar	Govind Parihar	<u>Himanshi</u>
7.	Mahima sen	Khemraj Sen	<u>Mahima Sen</u>
8.	Meenakshi Rathore	Mohan Lal Rathore	<u>meenakshi</u>
9.	Mohit Ajmera	Maheshj ajmera	<u>Mohit Ajmera</u>
10.	Monika Dhakad	Mahendra Singh Dhakad	<u>Monika</u>
11.	Neelu Sharma	Lal Chand Sharma	<u>Neelu Sharma</u>
12.	Nikita Suman	Krishan Murari Suman	<u>Nikita Suman</u>
13.	Rameshwari Sharma	Bansi Dhar Sharma	<u>Rameshwari Sharma</u>
14.	Shipra Devlia	Chandra Shekhar Devliya	<u>Shipra devliya</u>
15.	Shubham Gautam	Praddhumn Gautam	<u>शुभम गौतम</u>
16.	Shubham Sharma	Satya Prakash Sharma	NA Left
17.	Vaishali Singh	Surendra Singh	<u>Vaishali Singh</u>
18.	Yogesh Nagar	Chetram Nagar	<u>योगेश नागर</u>
19.	Ayushi Rathore	Arvind Rathore	<u>NA</u>
20.	Anil Kumar Meena	Ram Charan Meena	<u>NA</u>
21.	Raveena Saini	Bhanwar Lal Saini	<u>NA</u>

Total = 17

Pl = 17

AS = NA

SHWETA SAXENA

25.04.2024 10:51



UNIVERSITY OF KOTA, KOTA
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

Paper - II

85003-M.Sc. BOTANY SEMESTER-III EXAM.-DEC.-2022
8522-CYTOGENETICS-(INT)

Batch NO: 36745

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	28
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	27
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	28
4	223174	BHARTI MALAV	PREM CHAND MALAV	30	27
5	223175	EKTA SOLANKI	M S SOLANKI	30	29
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	30	27
7	223177	MAHIMA SEN	KHEMRAJ SEN	30	27
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	30	27
9	223179	MOHIT AJMERA	MAHESH AJMERA	30	27
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	30	28
11	223181	NEELU SHARMA	LAL CHAND SHARMA	30	27
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	30	27
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	30	29
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	30	28
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	30	26
16	223187	VAISHALI SINGH	SURENDRA SINGH	30	28
17	223188	YOGESH NAGAR	CHETARAM NAGAR	30	27

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

18-Apr-2023

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P.G. College, Kota -
Department of Botany
Mid Term. I (2022)
Semester - III
Paper - IV
mm (15)
Time (1hr)

- Q ⇒ 1 write a Note on taxonomic Hierarchy.
- Q ⇒ 2. Give Brief Account on 'Artificial system'
- Q ⇒ 3 write a Note on phylogenetic system.

Maa Bharti P. G. College Kolar
Department of Botany
Mid Term II (2022)
Semester - III
Paper - III

max (15)
Time (1hr)

Q → 1. Write short notes on

(i) Drimys

(ii) Eupomatia

Q → 2. Explain floral characters of family 'Rubiaceae'

Q → 3. Economic Importance of family 'Cucurbitaceae'

Maa Bharti P.G College, Kota
Mid-Term Attendance
M.Sc. Botany

Date:

Paper: Taxonomy of Angiosperms.

Semester: 25003 - M.Sc. Botany Semester - III Exam. 2022

Page 3

Sr. No.	Student's Name	Father's Name	Signature
1.	Aakansha Mittal	Rakesh Mittal	Aakansha
2.	Anita Vaishnav	Banwari Lal Vaishnav	Anita. Vai
3.	Ayushi Kharniwal	Sanjay Kharniwal	आयुशी
4.	Bharti Malav	Prem Chand Malav	Bharti Malav
5.	Ekta Solanki	M.S. Solanki	Ekta. Solanki
6.	Himanshi Parihar	Govind Parihar	हिमंशी परीहार
7.	Mahima sen	Khemraj Sen	mahima.
8.	Meenakshi Rathore	Mohan Lal Rathore	meenaksh.
9.	Mohit Ajmera	Maheshj ajmera	मोहित
10.	Monika Dhakad	Mahendra Singh Dhakad	मोनिका
11.	Neelu Sharma	Lal Chand Sharma	Neelu.
12.	Nikita Suman	Krishan Murari Suman	नीकिता
13.	Rameshwari Sharma	Bansi Dhar Sharma	Rameshwari
14.	Shipra Devlia	Chandra Shekhar Devliya	Shubham
15.	Shubham Gautam	Praddhumn Gautam	Shubham
16.	Shubham Sharma	Satya Prakash Sharma	Shubham NA left
17.	Vaishali Singh	Surendra Singh	योगेश
18.	Yogesh Nagar	Chetram Nagar	योगेश नगर
19.	Ayushi Rathore	Arvind Rathore	NA
20.	Anil Kumar Meena	Ram Charan Meena	NA
21.	Raveena Saini	Bhanwar Lal Saini	NA

Tolai 217

Pr 217

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SHWETA SAXENA

25.04.2024 10:51



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

Paper - III

85003-M.Sc. BOTANY SEMESTER-III EXAM.-DEC.-2022

8523-TAXONOMY OF ANGIOSPERMS-(INT)

Batch NO: 36746

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	27
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	28
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	28
4	223174	BHARTI MALAV	PREM CHAND MALAV	30	27
5	223175	EKTA SOLANKI	M S SOLANKI	30	29
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	30	28
7	223177	MAHIMA SEN	KHEMRAJ SEN	30	27
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	30	28
9	223179	MOHIT AJMERA	MAHESH AJMERA	30	28
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	30	27
11	223181	NEELU SHARMA	LAL CHAND SHARMA	30	28
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	30	27
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	30	29
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	30	27
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	30	27
16	223187	VAISHALI SINGH	SURENDRA SINGH	30	28
17	223188	YOGESH NAGAR	CHETARAM NAGAR	30	27

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

18-Apr-2023

SHWETA SAXENA

25.04.2024 10:51

M. A. S. D. C. H. S. V.
Maa Bharti P.G. College, KOL
Department of Botany (2022)
Mid Term - I
Semester - III
Paper - IV

marks (15)
Time (1hr)

- Q ⇒ 1. Describe the symptoms, causal organism of 'Stripe disease of Barley'
- Q ⇒ 2. Describe the causal organism, symptoms, control measures of 'wilt of cotton' disease.
- Q ⇒ 3. Discuss the role of salicylic Acid in plant Disease Development.

Maa Bharti P. G. College, Kolar
Department of Botany.
Mid Term II (2022)
Semester - III
Paper - IV

max 15
Time 1hr

- Q 1. write short Note on 'powdery mildew of grapes'
- Q 2. write short notes on
(1) plant Disease forecasting
(2) culture of obligate parasite
- Q 3. Describe of 'flag smut of wheat' Disease.

Maa Bharti P.G College, Kota
Mid-Term Attendance
M.Sc. Botany

Paper-4

Date:
Paper:
Semester:
Batch No. 50898
(INT)
Adv. Plant Pathology
M.Sc. Botany Semester - IIIrd EXAM - 2022

Sr. No.	Student's Name	Father's Name	Signature
1.	Aakansha Mittal	Rakesh Mittal	Aakansha
2.	Anita Vaishnav	Banwari Lal Vaishnav	Anita Va.
3.	Ayushi Kharniwal	Sanjay Kharniwal	Ayushi
4.	Bharti Malav	Prem Chand Malav	Bharti malav
5.	Ekta Solanki	M.S. Solanki	Ekta Solanki
6.	Himanshi Parihar	Govind Parihar	Himanshi Parihar
7.	Mahima sen	Khemraj Sen	Mahima
8.	Meenakshi Rathore	Mohan Lal Rathore	meenakshi
9.	Mohit Ajmera	Maheshj ajmera	Mohit
10.	Monika Dhakad	Mahendra Singh Dhakad	Monika
11.	Neelu Sharma	Lal Chand Sharma	Neelu
12.	Nikita Suman	Krishan Murari Suman	Nikita
13.	Rameshwari Sharma	Bansi Dhar Sharma	Rameshwari
14.	Shipra Devlia	Chandra Shekhar Devliya	Shipra
15.	Shubham Gautam	Praddhumn Gautam	Shubham
16.	Shubham Sharma	Satya Prakash Sharma	Shubham
17.	Vaishali Singh	Surendra Singh	Vaishali Singh
18.	Yogesh Nagar	Chetram Nagar	Yogesh
19.	Ayushi Rathore	Arvind Rathore	NA
20.	Anil Kumar Meena	Ram Charan Meena	NA
21.	Raveena Saini	Bhanwar Lal Saini	NA

✓

Total = 17
NA = 4
AB = 1

SHWETA SAXENA



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

85003-M.Sc. BOTANY SEMESTER-III EXAM.-DEC.-2022

8524-(A) ADV. PLANT PATHOLOGY-(INT)

Batch NO: 36747

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	28
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	27
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	27
4	223174	BHARTI MALAV	PREM CHAND MALAV	30	28
5	223175	EKTA SOLANKI	M S SOLANKI	30	29
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	30	28
7	223177	MAHIMA SEN	KHEMRAJ SEN	30	27
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	30	27
9	223179	MOHIT AJMERA	MAHESH AJMERA	30	27
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	30	28
11	223181	NEELU SHARMA	LAL CHAND SHARMA	30	28
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	30	29
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	30	28
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	30	27
15	223187	VAISHALI SINGH	SURENDRA SINGH	30	27
16	223188	YOGESH NAGAR	CHETARAM NAGAR	30	27

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

12-Apr-2023

SHWETA SAXENA

25.04.2024 10:51



Maa Bharti P. G. College, Kota

Mahaveer Nagar III, Sector-8

Kota-324005, Rajasthan

E-mail-mbpgcollege@yahoo.com

NOTICE

Ref. No.:

Date: 15/5/2023

All students of M.Sc. Botany II and IV Semester are informed that their first midterm exam will commence from 20th May 2023. Students should be regular during mid-term exams. Mid-term exam Time-Table is as follows:

Mid-Term I

M.Sc. Sem. II

Time: 9: A.M.

Date	Paper
20 th May 2023	Plant Ecology
23 rd May 2023	Plant Resource Utilization and Conservation
24 th May 2023	Cell and Molecular Biology
25 th May 2023	Biochemistry

M.Sc. Sem. IV

Time: 9:00 A.M.

Date	Paper
20 th May 2023	Biotechnology and Biometrics
23 rd May 2023	Plant Morphology and Anatomy
24 th May 2023	Seed Biology and Plant Breeding
25 th May 2023	Advanced Plant Pathology II

Dr. Nivedita Sharma
Department of Botany

Head of Department
BOTANY
Maa Bharti P. G. College
Mahaveer Nagar III, Sector-8, Kota (Raj.)



Shweta Saxena
Principal

प्राचार्य
मौ भारती स्वातकोत्तर महाविद्यालय
महावीर नगर तृतीय, कोटा



Maa Bharti P. G. College, Kota

Mahaveer Nagar III, Sector-8

Kota 324005, Rajasthan

E-mail-mbpgcollege@yahoo.com

NOTICE

Ref. No.:

Date: 28/6/2023

All students of M.Sc. Botany II and IV Semester are informed that their first midterm exam will commence from 5th July 2023. Students should be regular during mid-term exams. Mid-term exam Time-Table is as follows:

Mid-Term II

M.Sc. Sem. II

Time: 9:00 A.M.

Date	Paper
5 th July 2023	Plant Ecology
6 th July 2023	Plant Resource Utilization and Conservation
7 th July 2023	Cell and Molecular Biology
8 th July 2023	Biochemistry

M.Sc. Sem. IV

Time: 9:00 A.M.

Date	Paper
5 th July 2023	Biotechnology and Biometrics
6 th July 2023	Plant Morphology and Anatomy
7 th July 2023	Seed Biology and Plant Breeding
8 th July 2023	Advanced Plant Pathology II

Dr. Nivedita Sharma
Department of Botany

Head of Department
Maa Bharti P. G. College
Mahaveer Nagar III, Sector-8
Kota (Raj.)



Shweta Saxena
Principal

प्राचार्य
मौ भारती स्नातकोत्तर महाविद्यालय
महावीर नगर तृतीय, कोटा

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P.G. College, Kota

Department of Botany (2022)

Mid Term - I

Semester - II

Paper - I.

Time 1hr

MM (15)

Que (1) Write short note on role of biodiversity in Ecosystem function and Stability (5)

Que (2) Write short note on :- (5)

- (1) WWF
- (2) UNESCO

Que (3) Explain Soil Pollution or (5)

Water pollution

OR.

Write short note on Carbon Sequestration

Maa Bharti P.G. College, Kota
Department of Botany. (2022)
Mid Term - II
Semester - II
Topic - 1.

Time hrs
min 15

- Que (1) Write short note on concept of
- Ecological niche. (5)
- Que (2) Write short note on Consequence
of climate change (5)
- Que (3) Explain biogeochemical cycles (5)
OR
Explain Ecosystem Restoration in detail

Page-1



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

85002-M.Sc. BOTANY SEM.-II EXAM - 2021

8511-PLANT ECOLOGY-(INT)

BATCH NO : 15083

MAX MARKS : 30

Sr.No.	Roll No.	Name	Father's Name	Category	Signature of Candidate
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	REGULAR	A Akausha
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	REGULAR	Anita vaishnav
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	REGULAR	Ayushi kharniwal
4	223174	BHARTI MALAV	PREM CHAND MALAV	REGULAR	Bharti malav
5	223175	EKTA SOLANKI	M S SOLANKI	REGULAR	Ekt
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	REGULAR	Himanshi
7	223177	MAHIMA SEN	KHEMRAJ SEN	REGULAR	Mahima S
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	REGULAR	Meenakshi
9	223179	MOHIT AJMERA	MAHESH AJMERA	REGULAR	Mohit Ajmera
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	REGULAR	Monika
11	223181	NEELU SHARMA	LAL CHAND SHARMA	REGULAR	Neelu sharma
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	REGULAR	Nikita suman
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	REGULAR	Rameshwar
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	REGULAR	Shipradevlia
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	REGULAR	Shubham
16	223187	VAISHALI SINGH	SURENDRA SINGH	REGULAR	Vaishali
17	223188	YOGESH NAGAR	CHETARAM NAGAR	REGULAR	Yogesh

Total = 17

Present = 17

Absent = Nil



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

85002-M.Sc. BOTANY SEM.-II EXAM - 2022

8511-PLANT ECOLOGY-(INT)

Paper - I

Batch NO: 15083

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	27
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	27
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	27
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16	223187	VAISHALI SINGH	SURENDRA SINGH	30	27
17	223188	YOGESH NAGAR	CHETARAM NAGAR	30	27

Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner
DR. NIVEDITA SHARMA

16-Sep-2022

Maq. Bharti P.G. College Kota MN III Kota (Raj)

Department of Botany

(2022)

M.Sc Botany IInd sem

Midterm - I

14M-15

Paper II Plant Resource Utilization and Conservation

Q¹ Write about basic concept of origin of agriculture.

Q² Explain Vavilov concept.

Q³ Explain principles of conservation, environmental status of plant based on IUCN.

OR.

Write short notes on.

(a) NBPGR

(b) BSI

(c) CSIR

Maa Bharti P.G. College Kota MN III Kota (Raj)

Department of Botany

M. Sc Botany IInd sem

(2022)

Midterm: II

Paper-II Plant Resource utilization
and Conservation.

- Q1 write about :-
- ① Sanctuaries
 - ② National Parks
 - ③ Biosphere
 - ④ Wetland
 - ⑤ Mangroves
 - ⑥ Coral reefs.

- Q2 write about :-
- ① Botanical garden
 - ② field gene banks
 - ③ Seed banks
 - ④ SBT



UNIVERSITY OF KOTA, KOTA
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA
85002-M.Sc. BOTANY SEM.-II EXAM - 2021

**8512-PLANT RESOURCE UTILIZATION AND
CONSERVATION-(INT)**

BATCH NO : 15085 MAX MARKS : 30

Sr.No.	Roll No.	Name	Father's Name	Category	Signature of Candidate
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	REGULAR	Aakansha
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	REGULAR	Anita Vaishnav
3	223173	AYUSHI KHARNI WAL	SANJAY KHARNI WAL	REGULAR	Ayushi Kharniwal
4	223174	BHARTI MALAV	PREM CHAND MALAV	REGULAR	Bharti malav
5	223175	EKTA SOLANKI	M S SOLANKI	REGULAR	Ekti
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	REGULAR	Himanshi
7	223177	MAHIMA SEN	KHEMRAJ SEN	REGULAR	Mahima S.
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	REGULAR	Meenakshi
9	223179	MOHIT AJMERA	MAHESH AJMERA	REGULAR	Mohit Ajmera
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	REGULAR	Monika
11	223181	NEELU SHARMA	LAL CHAND SHARMA	REGULAR	Neelu Sharma
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	REGULAR	Nikita Suman
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	REGULAR	Ramshidhar Sharma
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	REGULAR	Shipra devlia
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	REGULAR	Shubham
16	223187	VAISHALI SINGH	SURENDRA SINGH	REGULAR	Vaishali Singh
17	223188	YOGESH NAGAR	CHETARAM NAGAR	REGULAR	Yogesh Nagar

Total = 17

Present = 17

Absent = Nil

N



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

Paper - II

85002-M.Sc. BOTANY SEM.-II EXAM - 2022

8512-PLANT RESOURCE UTILIZATION AND CONSERVATION-(INT)

Batch NO: 15085

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	26
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	26
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	27
4	223174	BHARTI MALAV	PREM CHAND MALAV	30	27
5	223175	EKTA SOLANKI	M S SOLANKI	30	28
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	30	27
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16	223187	VAISHALI SINGH	SURENDRA SINGH	30	27
17	223188	YOGESH NAGAR	CHETARAM NAGAR	30	27

Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner
DR. NIVEDITA SHARMA

16-Sep-2022

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti° P.G. College, Kota

Department of Botany (2022)

Mid Term II

Semester - II

Paper - II

Time 1hr
MM (15) W

Q.1) Explain Cytokinesis and cell plate formation (8)

Q.2) Explain Confocal Microscopy with diagram (8)

Q.3) Give structure and functions of :-
(a) Endoplasmic Reticulum

(b) Lysosomes

(c) Golgi apparatus



UNIVERSITY OF KOTA, KOTA
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

85002-M.Sc. BOTANY SEM.-II EXAM - 2021

8513-CELL AND MOLECULAR BIOLOGY-(INT)

BATCH NO : 15087

MAX MARKS : 30

Sr.No.	Roll No.	Name	Father's Name	Category	Signature of Candidate
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	REGULAR	Aakansha
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	REGULAR	Anita Vaishnav
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10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	REGULAR	Monika
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14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	REGULAR	Shipradeulia
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	REGULAR	Shubham Gautam
16	223187	VAISHALI SINGH	SURENDRA SINGH	REGULAR	Vaishali Singh
17	223188	YOGESH NAGAR	CHETARAM NAGAR	REGULAR	Yogesh Nagar

Total = 17

Pr = 17

Ab = Nil



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

85002-M.Sc. BOTANY SEM.-II EXAM - 2022
8513-CELL AND MOLECULAR BIOLOGY-(INT)

Paper - III

Batch NO: 15087

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	27
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	27
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	28
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17	223188	YOGESH NAGAR	CHETARAM NAGAR	30	28

Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner
DR. NIVEDITA SHARMA

16-Sep-2022

Maa Bharti P.G. College MN III kota (Raj)

Department of Botany

M.Sc Botany II Sem

(2022)

Mid term:-

Paper IV Biochemistry.

Q1 Write short notes on the following :-

- (a) Apoenzymes
- (b) Coenzyme
- (c) Ribozyme
- (d) artificial enzyme

Q2 Write about mechanism of enzyme action and Michaelis-Menten equation.

Q3 Write short notes on :-

- (a) Pectinase
- (b) Cellulose
- (c) Starch

Maa Bharti Poo College MN III Kota (Raj)

Department of Botany

M.Sc Botany II Sem (2022)

Mid term:

Paper - IV Biochemistry.

Q1 Write about

- (a) GS-GOGAT system
- (b) Transamination
- (c) Nod factor
- (d) Root Modulation

Q2 Write about

- (a) flavonoids
- (b) alkaloids
- (c) steroids
- (d) Michaelis-Menten equation.



UNIVERSITY OF KOTA, KOTA
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA
85002-M.Sc. BOTANY SEM.-II EXAM - 2021

Page-4

8514-BIOCHEMISTRY-(INT)

BATCH NO : 15089

MAX MARKS : 30

Sr.No.	Roll No.	Name	Father's Name	Category	Signature of Candidate
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	REGULAR	<i>Aakansha</i>
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	REGULAR	<i>Anita Vaishnav</i>
3	223173	AYUSHI KHARNI WAL	SANJAY KHARNI WAL	REGULAR	<i>Ayushi Kharniwal</i>
4	223174	BHARTI MALAV	PREM CHAND MALAV	REGULAR	<i>Bharti malav</i>
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11	223181	NEELU SHARMA	LAL CHAND SHARMA	REGULAR	<i>Neelu Sharma</i>
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	REGULAR	<i>Nikita Suman</i>
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	REGULAR	<i>Rameshni Sharma</i>
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15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	REGULAR	<i>Shubham</i>
16	223187	VAISHALI SINGH	SURENDRA SINGH	REGULAR	<i>VAISHALI</i>
17	223188	YOGESH NAGAR	CHETARAM NAGAR	REGULAR	<i>Yogesh Nagar</i>

Total = 17

R = 17

As = Nil

(Signature)



UNIVERSITY OF KOTA, KOTA
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA
85002-M.Sc. BOTANY SEM.-II EXAM - 2022
8514-BIOCHEMISTRY-(INT)

Paper - IV

Batch NO: 15089

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	28
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	27
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	27
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17	223188	YOGESH NAGAR	CHETARAM NAGAR	30	

Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner
DR. NIVEDITA SHARMA

16-Sep-2022

Maa Bharti P.G. College, Kota

Department of Botany (2022)

Mid Term - I

Semester - IV

Paper - I.

Time 1hr
max (15)

Que(1.) Explain Production of useful com-
pounds through cell culture. (5)

Que2.) Explain Agrobacterium mediated
gene transfer.

Que3.) Write short note on (IPR)
Intellectual Property Rights. (5)

Or

Explain Chloroplast transformation

Maa Bharti P.G. College, Kota

Department of Botany (2022)

Mid Term - I

Semester - IV

Paper - I.

Time 1 hr
marks (15)

Que 1.) Explain Production of useful compounds through cell culture. (5)

Que 2.) Explain Agrobacterium mediated gene transfer.

Que 3.) Write short notes on (IPR)
Intellectual Property Rights. (5)

Or

Explain Chloroplast transformation

Maa Bharti P.G. College, Kota,
Department of Botany. (2022)

Mid Term - 2

Semester - IV

Paper - I

Time 1 hr
min (15)

- Que 1.) Explain DNA and Protein Microarray (5)
- Que 2.) Write short note on Genomic and Complementary DNA Library (5)
- Que 3.) What is Protein Profiling. Give its significance (5)

Maa Bharti P.G College, Kota
Mid-Term Attendance
M.Sc. Botany

Paper-1

Date:

Paper: 8531 - BIOTECHNOLOGY AND BIOMETRICS (IIT)

Semester: 85004 - M.Sc. Botany Semester-IV Exam - June - 2023

Sr. No.	Student's Name	Father's Name	Signature
1.	Aakansha Mittal	Rakesh Mittal	Aakansha
2.	Anita Vaishnav	Banwari Lal Vaishnav	Anita Vaishnav
3.	Ayushi Kharniwal	Sanjay Kharniwal	Ayushi Kharniwal
4.	Bharti Malav	Prem Chand Malav	Bharti Malav
5.	Ekta Solanki	M.S. Solanki	Ekta
6.	Himanshi Parihar	Govind Parihar	Himanshi
7.	Mahima sen	Khemraj Sen	Mahima Sen
8.	Meenakshi Rathore	Mohan Lal Rathore	Meenakshi
9.	Mohit Ajmera	Maheshj ajmera	Mohit Ajmera
10.	Monika Dhakad	Mahendra Singh Dhakad	Monika
11.	Neelu Sharma	Lal Chand Sharma	Neelu Sharma
12.	Nikita Suman	Krishan Murari Suman	Nikita Suman
13.	Rameshwari Sharma	Bansi Dhar Sharma	Rameshwari Sharma
14.	Shipra Devlia	Chandra Shekhar Devliya	Shipra Devliya
15.	Shubham Gautam	Praddhumn Gautam	Shubham Gautam
16.	Shubham Sharma	Satya Prakash Sharma	Shubham Sharma
17.	Vaishali Singh	Surendra Singh	Vaishali Singh
18.	Yogesh Nagar	Chetram Nagar	Yogesh Nagar
19.	Ayushi Rathore	Arvind Rathore	NA
20.	Anil Kumar Meena	Ram Charan Meena	NA
21.	Raveena Saini	Bhanwar Lal Saini	NA

Total = 17

Pr = 17

Ab = 17

SHWETA SAXENA



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

Paper-I

85004-M.Sc. BOTANY SEMESTER-IV EXAM.-JUNE 2023
8531-BIOTECHNOLOGY AND BIOMETRICS-(INT)

Batch NO: 50898

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	28
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	28
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	28
4	223174	BHARTI MALAV	PREM CHAND MALAV	30	27
5	223175	EKTA SOLANKI	M S SOLANKI	30	29
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	30	27
7	223177	MAHIMA SEN	KHEMRAJ SEN	30	28
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	30	NA
9	223179	MOHIT AJMERA	MAHESH AJMERA	30	27
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	30	28
11	223181	NEELU SHARMA	LAL CHAND SHARMA	30	27
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	30	27
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	30	28
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	30	29
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	30	27
16	223187	VAISHALI SINGH	SURENDRA SINGH	30	27
17	223188	YOGESH NAGAR	CHETARAM NAGAR	30	27

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

21-Aug-2023

Maa Bharti P.G. College, Kota

Department of Botany (2022)

Mid Term - I

Semester - IV

Time 1 hr
min (15)

Paper - 2

Que 1.) Explain Convergence and Evolution of tree habit in Gymnosperm and Angiosperm. (5)

Que 2.) Explain Anatomy of Shorea and Pinus in detail (5)

Que 3.) Explain Epidermal tissue system (5)

Maa Bharti P.G. College, Kota
Department of Botany (2022)
Mid-Term - 2
Semester - IV
Paper - II
Time 1 hr
MM (15)

- Que 1.) Explain Pollens and Carpels Morphology in detail (5)
- Que 2.) Explain structural modifications in roots for food storage and respiration. (5)
- Que 3.) Explain Internal structure of various types of leaves in Monocot and Dicot plants or. (5)
- Que 4.) Explain structure and development of flowers

Maa Bharti P.G College, Kota
Mid-Term Attendance
M.Sc. Botany

Paper-2

Date:
Paper: 8532 - PLANT MORPHOLOGY AND ANATOMY - (INT)
Semester: 25004 - M.Sc. Botany SEM-IV Exam - June - 2023

Sr. No.	Student's Name	Father's Name	Signature
1.	Aakansha Mittal	Rakesh Mittal	Aakansha
2.	Anita Vaishnav	Banwari Lal Vaishnav	Anita Vaishnav
3.	Ayushi Kharniwal	Sanjay Kharniwal	Ayushi Kharniwal
4.	Bharti Malav	Prem Chand Malav	Bharti Malav
5.	Ekta Solanki	M.S. Solanki	Ekta
6.	Himanshi Parihar	Govind Parihar	Himanshi
7.	Mahima sen	Khemraj Sen	Mahima Sen
8.	Meenakshi Rathore	Mohan Lal Rathore	Meenakshi
9.	Mohit Ajmera	Maheshj ajmera	Mohit Ajmera
10.	Monika Dhakad	Mahendra Singh Dhakad	Monika
11.	Neelu Sharma	Lal Chand Sharma	Neelu Sharma
12.	Nikita Suman	Krishan Murari Suman	Nikita Suman
13.	Rameshwari Sharma	Bansi Dhar Sharma	Rameshwari Sharma
14.	Shipra Devlia	Chandra Shekhar Devliya	Shipra Devliya
15.	Shubham Gautam	Praddhumn Gautam	शुभम गौतम
16.	Shubham Sharma T.C	Satya Prakash Sharma	— left
17.	Vaishali Singh	Surendra Singh	Vaishali Singh
18.	Yogesh Nagar	Chetram Nagar	योगेश नागर
19.	Ayushi Rathore NA	Arvind Rathore	NA
20.	Anil Kumar Meena NA	Ram Charan Meena	NA
21.	Raveena Saini NA	Bhanwar Lal Saini	NA

Total = 17
A = 217
AB = 217

SHWETA SAXENA



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

Paper-II

B5004-M.Sc. BOTANY SEMESTER-IV EXAM.-JUNE 2023

B532-PLANT MORPHOLOGY AND ANATOMY-(INT)

Batch NO: 50899

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	29
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	28
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	28
4	223174	BHARTI MALAV	PREM CHAND MALAV	30	28
5	223175	EKTA SOLANKI	M S SOLANKI	30	28
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	30	28
7	223177	MAHIMA SEN	KHEMRAJ SEN	30	28
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	30	NA
9	223179	MOHIT AJMERA	MAHESH AJMERA	30	27
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	30	28
11	223181	NEELU SHARMA	LAL CHAND SHARMA	30	28
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	30	27
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	30	28
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	30	29
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	30	26
16	223187	VAISHALI SINGH	SURENDRA SINGH	30	27
17	223188	YOGESH NAGAR	CHETARAM NAGAR	30	28

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

21-Aug-2023

Maa Bhauti P.G. College, Kota.

Department of Botany.

(2022)

Mid Term - I.

Semester - IV

Time 1hr
mm (15)

Paper - 3.

Que 1.) Write short note on breeding methods in self and cross pollinated and vegetatively propagated crops (5)

Que 2.) Explain Heterosis and Inbreeding depression - (8)

Que 3.) Write short note on seed dispersal Mechanism (5)

Maa Bharti P.G. College, Kota.

Department of Botany (2022)

Mid Term - 2

Semester - IV

Paper - III

Time 1hr
min 15

Que 1.) Give the status of Plant Breeding work in India, in detail? (5)

Que 2.) Explain Mobilization of stored products during seed germination (5)

Que 3.) Write short note on suspended seed animation in brief (5)

OR

Que 3.) Explain Transformation of seed parts

Maa Bharti P.G College, Kota
Mid-Term Attendance
M.Sc. Botany

Paper-3

Topic:
Paper: 2533-SEED BIOLOGY AND PLANT BREEDING (IIT)
Semester: 85004-M.Sc. Botany Semester -IV Exam-June-2023

No.	Student's Name	Father's Name	Signature
1.	Aakansha Mittal	Rakesh Mittal	Aakansha
2.	Anita Vaishnav	Banwari Lal Vaishnav	Anita Vaishnav
3.	Ayushi Kharniwal	Sanjay Kharniwal	Ayushi Kharniwal
4.	Bharti Malav	Prem Chand Malav	Bharti malav
5.	Ekta Solanki	M.S. Solanki	Ekta
6.	Himanshi Parihar	Govind Parihar	Himanshi
7.	Mahima sen	Khemraj Sen	Mahima Sen
8.	Meenakshi Rathore	Mohan Lal Rathore	Meenakshi
9.	Mohit Ajmera	Maheshj ajmera	Mohit Ajmera
10.	Monika Dhakad	Mahendra Singh Dhakad	Monika
11.	Neelu Sharma	Lal Chand Sharma	Neelu Sharma
12.	Nikita Suman	Krishan Murari Suman	Nikita Suman
13.	Rameshwari Sharma	Bansi Dhar Sharma	Rameshwari Sharma
14.	Shipra Devlia	Chandra Shekhar Devliya	Shipra devlia
15.	Shubham Gautam	Praddhumn Gautam	शुभम गौतम
16.	Shubham Sharma TC	Satya Prakash Sharma	Left
17.	Vaishali Singh	Surendra Singh	Vaishali Singh
18.	Yogesh Nagar	Chetram Nagar	योगेश नागर
19.	Ayushi Rathore NP	Arvind Rathore	NP
20.	Anil Kumar Meena NP	Ram Charan Meena	NP
21.	Raveena Saini NP	Bhanwar Lal Saini	NP

MD

Total = 17
Pr = 17
Ab = NP

SHWETA SAXENA

25.04.2024 10:51



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

Page - III

85004-M.Sc. BOTANY SEMESTER-IV EXAM.-JUNE 2023
8533-SEED BIOLOGY AND PLANT BREEDING-(INT)

Batch NO: 50901

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	29
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	27
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	27
4	223174	BHARTI MALAV	PREM CHAND MALAV	30	27
5	223175	EKTA SOLANKI	M S SOLANKI	30	28
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	30	27
7	223177	MAHIMA SEN	KHEMRAJ SEN	30	28
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	30	NA
9	223179	MOHIT AJMERA	MAHESH AJMERA	30	26
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	30	27
11	223181	NEELU SHARMA	LAL CHAND SHARMA	30	27
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	30	27
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	30	28
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	30	29
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	30	27
16	223187	VAISHALI SINGH	SURENDRA SINGH	30	27
17	223188	YOGESH NAGAR	CHETARAM NAGAR	30	27

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

21-Aug-2023

Maa Bharti P.G. College, Kota.

Department of Botany (2022)

Mid - Term. I

Semester - IV

Paper - IV

Time 1hr
min (15)

Que 1.) Explain classification, Morphology
Physiology and Nature of Virus (5)

Que 2.) Explain Transmission of Viral
disease (5)

Que 3.) Explain Bunchy top of Banana (5)
OR
Bhindi Yellow Mosaic.

Maa Bharti P.G College, Kota
Mid-Term Attendance
M.Sc. Botany

Paper - IV

Date:

Paper: ...2534-(A) ADV. PLANT PATHOLOGY-II-(INT)

Semester: ...85304-M.Sc. Botany Semester-IV Exam-June-2023

Sr. No.	Student's Name	Father's Name	Signature
1.	Aakansha Mittal	Rakesh Mittal	Aakansha
2.	Anita Vaishnav	Banwari Lal Vaishnav	Anita Vaishnav
3.	Ayushi Kharniwal	Sanjay Kharniwal	Ayushi Kharniwal
4.	Bharti Malav	Prem Chand Malav	Bharti Malav
5.	Ekta Solanki	M.S. Solanki	Ekta
6.	Himanshi Parihar	Govind Parihar	Himanshi
7.	Mahima sen	Khemraj Sen	Mahima Sen
8.	Meenakshi Rathore	Mohan Lal Rathore	Meenakshi
9.	Mohit Ajmera	Maheshj ajmera	Mohit Ajmera
10.	Monika Dhakad	Mahendra Singh Dhakad	Monika
11.	Neelu Sharma	Lal Chand Sharma	Neelu Sharma
12.	Nikita Suman	Krishan Murari Suman	Nikita Suman
13.	Rameshwari Sharma	Bansi Dhar Sharma	Rameshwari Sharma
14.	Shipra Devlia	Chandra Shekhar Devliya	Shipra Devliya
15.	Shubham Gautam	Praddhumn Gautam	Shubham Gautam
16.	Shubham Sharma TC	Satya Prakash Sharma	Left
17.	Vaishali Singh	Surendra Singh	Vaishali Singh
18.	Yogesh Nagar	Chetram Nagar	Yogesh Nagar
19.	Ayushi Rathore NA	Arvind Rathore	NA
20.	Anil Kumar Meena NA	Ram Charan Meena	NA
21.	Raveena Saini NA	Bhanwar Lal Saini	NA

Total = 17

SHWETA SAXENA

25.04.2024 10:51


UNIVERSITY OF KOTA, KOTA
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA
Paper - IV
85004-M.Sc. BOTANY SEMESTER-IV EXAM.-JUNE 2023
8534-(A) ADV. PLANT PATHOLOGY-II-(INT)
Batch NO: 50902

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223171	AAKANSHA MITTAL	RAKESH MITTAL	30	29
2	223172	ANITA VAISHNAV	BANWARI LAL VAISHNAV	30	27
3	223173	AYUSHI KHARNIWAL	SANJAY KHARNIWAL	30	28
4	223174	BHARTI MALAV	PREM CHAND MALAV	30	27
5	223175	EKTA SOLANKI	M S SOLANKI	30	28
6	223176	HIMANSHI PARIHAR	GOVIND PARIHAR	30	27
7	223177	MAHIMA SEN	KHEMRAJ SEN	30	28
8	223178	MEENAKSHI RATHOR	MOHAN LAL RATHOR	30	NA
9	223179	MOHIT AJMERA	MAHESH AJMERA	30	27
10	223180	MONIKA DHAKED	MAHENDRA SINGH DHAKED	30	28
11	223181	NEELU SHARMA	LAL CHAND SHARMA	30	28
12	223182	NIKITA SUMAN	KRISHAN MURARI SUMAN	30	28
13	223183	RAMESHWARI SHARMA	BANSHIDHAR SHARMA	30	29
14	223184	SHIPRA DEVLIA	CHANDER SHEKHAR DEVLIA	30	29
15	223185	SHUBHAM GAUTAM	PRADDHUMAN GAUTAM	30	27
16	223187	VAISHALI SINGH	SURENDRA SINGH	30	27
17	223188	YOGESH NAGAR	CHETARAM NAGAR	30	27

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

21-Aug-2023



Maa Bharti P. G. College, Kota

Mahaveer Nagar III, Sector-8
Kota-324005, Rajasthan
E-mail-mbpgcollege@yahoo.com

NOTICE

Ref. No.:

Date: 21st March 2022

All students of M.Sc. Chemistry I and III Semester are informed that their first midterm exam will commence from 28th March 2022. Students should be regular during mid-term exams. Mid-term exam Time-Table is as follows:

Mid-Term I

M.Sc. Sem. I

Time: 9:00 a.m.

Date	Paper
28 th March 2022	Inorganic Chemistry-I
29 th March 2022	Organic Chemistry-II
30 th March 2022	Physical Chemistry-III
31 st March 2022	Biology/Maths-IV

M.Sc. Sem. III

Time: 9:00 a.m.

Date	Paper
28 th March 2022	Chromatography-I
29 th March 2022	Spectroscopy-II
30 th March 2022	Organic Synthesis-III
31 st March 2022	Heterocyclic Chemistry-IV

B. Sharma
Department of Chemistry

Head of Department
CHEMISTRY
Maa Bharti P. G. College
Mahaveer Nagar-III, Kota (Raj.)



Shweta Saxena
Principal
मौ भारती स्नातकोत्तर महाविद्यालय
महावीर नगर तृतीय, कोटा

SHWETA SAXENA

25.04.2024 10:51



Maa Bharti P. G. College, Kota

Mahaveer Nagar III, Sector-8

Kota-324005, Rajasthan

E-mail-mbpgcollege@yahoo.com

NOTICE

Ref. No.:

Date: 15/04/2022

All students of M.Sc. Chemistry I and III Semester are informed that their first midterm exam will commence from 23rd April 2022. Students should be regular during mid-term exams. Mid-term exam Time-Table is as follows:

Mid-Term II

M.Sc. Sem. I

Time: 9:00 a.m.

Date	Paper
23 rd April 2022	Inorganic Chemistry-I
25 th April 2022	Organic Chemistry-II
26 th April 2022	Physical Chemistry-III
27 th April 2022	Biology/Maths-IV

M.Sc. Sem. III

Time: 9:00 a.m.

Date	Paper
23 rd April 2022	Chromatography-I
25 th April 2022	Spectroscopy-II
26 th April 2022	Organic Synthesis-III
27 th April 2022	Heterocyclic Chemistry-IV

B. Sharma
Department of Chemistry

Head of Department
Maa Bharti P. G. College
Mahaveer Nagar III, Kota (Raj.)



Shweta Saxena
Principal

मौ भारती स्वातन्त्र्य महाविद्यालय
महावीर नगर तृतीय, कोटा

SHWETA SAXENA

25.04.2024 10:51

MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. I Sem. Chemistry (2021-22)

Mid Term I

Paper I Inorganic Chemistry

Time-1 Hr

MM-15

Answer the following questions. (Attempt any three)

1. Explain VSEPR Theory and give its limitations. (5)
2. Describe Bent Rule and Energetics of Hybridisation. (5)
3. Explain Walsh Diagram for triatomic molecule. (5)
4. Describe John-Teller Effect. (5)
5. Give limitations of Crystal Field Theory. (5)

MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. I Sem. Chemistry (2021-22)

Mid Term II

Paper I Inorganic Chemistry

Time-1 Hr

MM-15

Answer the following questions.

1. Explain the bonding in octahedral complexes with the help of Molecular Orbital Theory. (3)
2. Explain η_3 system with reference to Molecular Orbital Theory. (3)
3. Describe limitations of Crystal Field Theory. (3)
4. Describe π - Bonding in Square Planar complexes. (3)
5. Explain Molecular Orbital Theory of Tetrahedral Complexes. (3)

669

UNIVERSITY OF KOTA
ATTENDANCE SHEETNAME OF COLLEGE: 11 : MAA BHARTI P.G. MAHAVIDHYALYA, KOTA
NAME OF EXAMINATION: M.Sc. CHEMISTRY SEM-I EXAM. -DEC. -2021

OMRNO- 5312

SUBJECT WITH CODE: 8051: INORGANIC CHEMISTRY-INT

CATEGORY: REG/EX

DAY & DATE OF EXAMINATION: 18th April 2022

SNO BATCH : ROLL NO.

NAME OF CANDIDATE
FATHER'S NAME

SIGN. OF CANDIDATE

1	222591	CHETAN SHARMA RAKESH CHANDRA SHARMA	Chetan
2	222592	MAHEE VIJAY DINESH VIJAY	mahee
3	222593	MOHIT CHOUHAN BALRAM CHOUHAN	mohit
4	222594	NARENDRA PRAJAPAT HUKUM PRAJAPAT	narendra prajapat
5	222595	NIKITA SINDHAW SANJAY SINDHAW	Nikita Sindhaw
6	222596	PALLAVI SHARMA YOGENDRA SHARMA	P. Sharma
7	222597	POOJA KUSHWAHA VIRENDRA SINGH KUSHWAHA	Pooja
8	222598	PRIYANKA NAINI WAL ASHOK KUMAR NAINI WAL	Priyanka
9	222599	ROHIT MEENA JAGDISH MEENA	Rohit
10	222600	SANDEEP TYAGI LAXMI NARAYAN	Sandeep
11	222601	SRISHTI GAUR ANIL GAUR	Srishti

Total No of student Present = 11

Absent = Nil

Total = 11

Shanu

Internal

ONE COPY BE RETAINED BY THE CENTRE SUPDT. AND ONE COPY OF THE ATTENDANCE SHEET RETAINED BY THE UNIVERSITY OFFICE
PRINCIPAL COPY OF AWARDS IS TO BE FILLED ON BLANK AWARD LIST IN SEQUENCE OF ROLLSNOS WHICH ARE BEING SENT WITH PRACTICAL MATERIAL

SIGNATURE OF INTERNAL EXAMINERS

SIGNATURE OF EXTERNAL EXAMINERS

SHWETA SAXENA

25.04.2024 10:51

6/25/22, 1:09 PM



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

80501-M.Sc. CHEMISTRY SEMESTER-I EXAM.-DEC.-2021

8051-INORGANIC CHEMISTRY-(-INT)

Batch NO: 5312

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	222591	CHETAN SHARMA	RAKESH CHANDRA SHARMA	30	27
2	222592	MAHEE VIJAY	DINESH VIJAY	30	29
3	222593	MOHIT CHOUHAN	BALRAM CHOUHAN	30	25
4	222594	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	30	28
5	222595	NIKITA SINDHAW	SANJAY SINDHAW	30	29
6	222596	PALLAVI SHARMA	YOGENDRA SHARMA	30	30
7	222597	POOJA KUSHWAHA	VIRENDRA SINGH KUSHWAHA	30	28
8	222598	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	30	27
9	222599	ROHIT MEENA	JAGDISH MEENA	30	24
10	222600	SANDEEP TYAGI	LAXMI NARAYAN	30	26
11	222601	SRISHTI GAUR	ANIL GAUR	30	29

Signature of Internal Examiner

Date of Submission.....25/6/22

Signature of External Examiner
DR. BHARTIY SHARMA

25-Jun-2022

MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. I Sem. Chemistry (2021-22)

Mid Term I

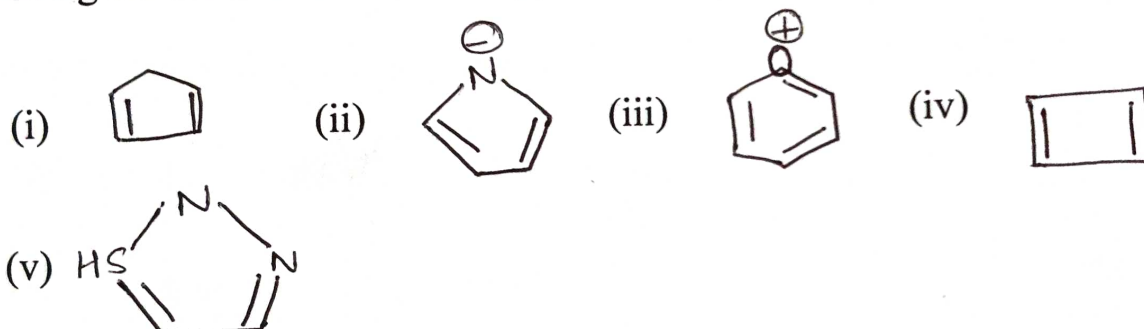
Paper II Organic Chemistry

Time-1 Hr

MM-15

Answer the following questions.

1. Using the criteria for aromaticity, determine if the following molecules are aromatic:



2. Write notes on: (any two)

- (i) Cryptands
- (ii) Homo-aromaticity
- (iii) Crown Ether
- (iv) Huckel Rule

(2.5X2=5)

3. (a) Identify the aromatic, anti-aromatic and non-aromatic compound from the following compounds.

(2.5)

(b) Give two methods of generation of carbene and Nitrene.

(2.5)

MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. I Sem. Chemistry (2021-22)

Mid Term II

Paper II Organic Chemistry

Time-1 Hr

MM-15

Answer the following questions. (Attempt any three)

1. Derive the Hammett Equation. Explain the physical significance of substituent and reaction constant. (5)

2. Write short notes on:

(i) Isotope Effect

(ii) Carbene and Nitrene

(2.5X2=5)

3. Write short notes on:

(i) S_N^i Mechanism

(ii) Phase Transfer Catalysis

(2.5X2=5)

4. Give brief notes on the following:

(i) Ortho/Para Ratio

(ii) Houben- Hoesch Reaction

(2.5X2=5)

5. What is Huckel Rule? Explain the aromaticity in Benzenoid compounds by giving suitable examples. (5)

671

UNIVERSITY OF KOTA
ATTENDANCE SHEETNAME OF COLLEGE: 11 : MAA BHARTI P. G. MAHAVIDHYALYA, KOTA
NAME OF EXAMINATION: M.Sc. CHEMISTRY SEM-I EXAM. -DEC. -2021

OMRNO- 5314

SUBJECT WITH CODE: 8052: ORGANIC CHEMISTRY-INT

CATEGORY: REG/EX

DAY & DATE OF EXAMINATION: 19th April 2022SNO BATCH ROLL NO. NAME OF CANDIDATE
FATHER'S NAME SIGN. OF CANDIDATE

1		222591	CHETAN SHARMA RAKESH CHANDRA SHARMA	Chetan
2		222592	MAHEE VIJAY DINESH VIJAY	Mahee
3		222593	MOHIT CHOUHAN BALRAM CHOUHAN	Mohit
4		222594	NARENDRA PRAJAPAT HUKUM PRAJAPAT	नरेंद्र प्रजापत
5		222595	NIKITA SINDHAW SANJAY SINDHAW	Nikita Sindhaw
6		222596	PALLAVI SHARMA YOGENDRA SHARMA	P. Sharma
7		222597	POOJA KUSHWAHA VIRENDRA SINGH KUSHWAHA	Pooja
8		222598	PRIYANKA NAINIHAL ASHOK KUMAR NAINIHAL	Priyanka
9		222599	ROHIT MEENA JAGDISH MEENA	Rohit
10		222600	SANDEEP TYAGI LAXMI NARAYAN	SA
11		222601	SRISHTI GAUR ANIL GAUR	Srishti

Total No. of students

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Absent - Nil

Total - 11

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11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

80501-M.Sc. CHEMISTRY SEMESTER-I EXAM.-DEC.-2021

8052-ORGANIC CHEMISTRY-(-INT)

Batch NO: 5314

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	222591	CHETAN SHARMA	RAKESH CHANDRA SHARMA	30	26
2	222592	NAHEE VIJAY	DINESH VIJAY	30	30
3	222593	ROHIT CHOUHAN	BALRAM CHOUHAN	30	24
4	222594	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	30	28
5	222595	NIKITA SINDHAW	SANJAY SINDHAW	30	29
6	222596	PALLAVI SHARMA	YOGENDRA SHARMA	30	30
7	222597	POOJA KUSHWAHA	VIRENDRA SINGH KUSHWAHA	30	29
8	222598	PREYANKA NAJINIWAL	ASHOK KUMAR NAJINIWAL	30	27
9	222599	ROHIT MEENA	JAGDISH MEENA	30	24
10	222600	SANDEEP TYAGI	LAXMI NARAYAN	30	29
11	222601	BRISHTI GAUR	ANIL GAUR	30	30

Signature of Internal Examiner

Signature of External Examiner
DR. BHARTY SHARMA

Date of Submission.....

25-Jun-2022

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25.04.2024 10:51

MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. I Sem. Chemistry (2021-22)

Mid Term I

Paper III Physical Chemistry

Time-1 Hr

MM-15

Answer the following questions.

1. (a) Explain Collision Theory of reaction rate. (5)

Or

(b) Explain the salt effect. (5)

2. (a) Explain Lindemann Theory. (3)

(b) Discuss the Huckel Theory of Conjugated systems. (2)

3. (a) Explain Activated Complex Theory for Bimolecular Reactions. (5)

Or

(b) Derive thermodynamically the Gibb's Adsorption Isotherm for the adsorption of a solute on the surface of a liquid. (5)

MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. I Sem. Chemistry (2021-22)

Mid Term II

Paper III Physical Chemistry

Time-1 Hr

MM-15

Answer the following questions. (Attempt any three)

1. Describe the Postulates of Quantum Mechanics. (5)

2. Write note on Dual Nature of Radiation and Heisenberg

Uncertainty Principle. (5)

3. Derive the Schrodinger Wave Equation. (5)

4. Explain Flow method of Fast Reactions. (5)

5. Discuss the Perturbation Theory. (5)

NAME OF COLLEGE: 11 : MAA BHARTI P. G. MAHAVIDHYALYA, KOTA
NAME OF EXAMINATION: M. Sc. CHEMISTRY SEM-I EXAM. -DEC. -2021
SUBJECT WITH CODE: 8053: PHYSICAL CHEMISTRY-INT

OHRNO- 5316

20th April 2022

CATEGORY: REG/EX DAY & DATE OF EXAMINATION:

SNO BATCH ROLL NO.

NAME OF CANDIDATE
FATHER'S NAME

SIGN. OF CANDIDATE

1		222591	CHETAN SHARMA RAKESH CHANDRA SHARMA	Chetan
2		222592	MAHEE VIJAY DINESH VIJAY	mahee
3		222593	MOHIT CHOUHAN BALRAM CHOUHAN	mehit
4		222594	NARENDRA PRAJAPAT HUKUM PRAJAPAT	Narender
5		222595	NIKITA SINDHAW SANJAY SINDHAW	Nikita Sindhawa
6		222596	PALLAVI SHARMA YOGENDRA SHARMA	P. Sharma
7		222597	POOJA KUSHWAHA VIRENDRA SINGH KUSHWAHA	Pooja
8		222598	PRIYANKA NAINI WAL ASHOK KUMAR NAINI WAL	Priyanka
9		222599	ROHIT MEENA JAGDISH MEENA	Rohit
10		222600	SANDEEP TYAGI LAXMI NARAYAN	Sandeep
11		222601	SRISHTI GAUR ANIL GAUR	Srishti

Total no. of student - present = 11

No. of student - Absent = NIL

Total = 11

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80501-M.Sc. CHEMISTRY SEMESTER-I EXAM.-DEC.-2021

8053-PHYSICAL CHEMISTRY-(-INT)

Batch NO: 5316

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2	222592	MAHEE VIJAY	DINESH VIJAY	30	30
3	222593	MOHIT CHOUHAN	BALRAM CHOUHAN	30	24
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7	222597	POOJA KUSHWAHA	VIRENDRA SINGH KUSHWAHA	30	27
8	222598	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	30	26
9	222599	ROHIT MEENA	JAGDISH MEENA	30	25
10	222600	SANDEEP TYAGI	LAXMI NARAYAN	30	26
11	222601	SRISHTI GAUR	ANIL GAUR	30	30

Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner
DR. BHARTIY SHARMA

25-Jun-2022

MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. I Sem. Chemistry (2021-22)

Mid Term I

Paper IV Mathematics for Chemists

Time-1 Hr

MM-15

Answer the following questions. (Attempt any three)

1. Differentiate with respect to 'x' :

$$\frac{e^x (\sin x + \tan x)}{1+x^3 + \log x} \quad (5)$$

2. Solve the following linear equation by Row transition formation:

$$5x - y + 2z = 9$$

$$3x + y = 5$$

$$x + y + z = 6 \quad (5)$$

3. Find the Line of Regression of the data set:

x	y
10	7
12	6
14	8
16	9
18	12

(5)

4. Integrate $e^x \sin x$ w.r.t. 'x'.

(5)

5. Solve the differential equation:

$$(3x + 4y + 5)dx = (4x + 6y + 3)dy$$

(5)

MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. I Sem. Chemistry (2021-22)

Mid Term II

Paper IV Mathematics for Chemists

Time-1 Hr

MM-15

Answer the following questions.

1. Find the maxima and minima of:

$$\sin x + \sin y + \sin(x + y)$$

(4)

2. Evaluate:

(3X2=6)

(i) $\int \frac{\sec^4(x)}{\tan x} dx$

(ii) $\int \frac{(3x+1)}{(3x^2+2x+1)^3} dx$

3. Find standard deviation of Poisson's Distribution.

(5)

Or

4. (a) Solve differential equation

$$\cos(x + y)dy = dx$$

(3)

(b) Obtain partial derivatives of

$$z = (x^2 + y^2)^{-1/2}$$

w.r.t. x and y.

(2)

675

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OF EXAMINATION:11 : MAA BHARTI P.G. MAHAVIDHYALYA, KOTA
M.Sc. CHEMISTRY SEM-I EXAM. -DEC.-2021

OMRNO- 5318

SUBJECT WITH CODE: 8054: MATHEMATICS FOR CHEMISTS-INT

CATEGORY: REG/EX

DAY & DATE OF EXAMINATION:

SNO BATCH : ROLL NO. NAME OF CANDIDATE
FATHER'S NAME SIGN. OF CANDIDATE

1	222591	CHETAN SHARMA RAKESH CHANDRA SHARMA	<u>Chetan</u>
2	222592	MAHEE VIJAY DINESH VIJAY	<u>Mahee</u>
3	222593	MOHIT CHOUHAN BALRAM CHOUHAN	<u>Mohit</u>
4	222594	NARENDRA PRAJAPAT HUKUM PRAJAPAT	<u>नरेंद्र प्रजापत</u>
5	222595	NIKITA SINDHAW SANJAY SINDHAW	<u>Nikita Sindhaw</u>
6	222596	PALLAVI SHARMA YOGENDRA SHARMA	<u>Pallavi</u>
7	222597	POOJA KUSHWAHA VIRENDRA SINGH KUSHWAHA	<u>Pooja</u>
8	222600	SANDEEP TYAGI LAXMI NARAYAN	<u>Sandeep</u>
9	222601	SRISHTI GAUR ANIL GAUR	<u>Srishti</u>

Total No. of Student = 9
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80501-M.Sc. CHEMISTRY SEMESTER-I EXAM.-DEC.-2021

8054-MATHEMATICS FOR CHEMISTS-(-INT)

Batch NO: 5318

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	222591	CHETAN SHARMA	RAKESH CHANDRA SHARMA	30	25
2	222592	MAHEE VIJAY	DINESH VIJAY	30	28
3	222593	MOHIT CHOUHAN	BALRAM CHOUHAN	30	24
4	222594	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	30	26
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8	222600	SANDEEP TYAGI	LAXMI NARAYAN	30	25
9	222601	SRISHTI GAUR	ANIL GAUR	30	29

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Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner
DR. BHARTIY SHARMA

25-Jun-2022

MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. I Sem. Chemistry (2021-22)

Mid Term I

Paper IV Biology for Chemists

Time-1 Hr

MM-15

Answer the following questions.

(1X5=5)

1. Answer the following questions:

- (i) Define Anabolism. Give example.
- (ii) Name the scientist who had experimentally proved the biochemical origin of life.
- (iii) Write the molecular structure of ATP.
- (iv) Define Non-reducing sugars. Give example of the same.
- (v) Name the type of glycoside linkage found in Sucrose.

2. Describe in detail the structure and function of a Nucleus of a cell. (5)

3. Draw a well labelled diagram of typical Eukaryotic plant cell and compare it with Prokaryotic cell. (5)

MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. I Sem. Chemistry (2021-22)

Mid Term II

Paper IV Biology for Chemists

Time-1 Hr

MM-15

Answer the following question.

1. Describe the Amphoteric nature of Amino acids. (5)
2. Write the primary and secondary structure of protein. (5)
3. Write short notes on the following:
 - (a) Peptide Bond
 - (b) Mitochondrion (5)

Or

4. Write short notes on:
 - (a) Chitin
 - (b) Glycogen (5)

677

UNIVERSITY OF KOTA
ATTENDANCE SHEETOF COLLEGE: 11 : MAA BHARTI P.G. MAHAVIDHYALYA, KOTA
OF EXAMINATION: M.Sc. CHEMISTRY SEM-I EXAM. -DEC. -2021

SUBJECT WITH CODE: 8055: BIOLOGY FOR CHEMISTS-INT

21st April 2022 OMRNO- 5320

CATEGORY: REG/EX

DAY & DATE OF EXAMINATION:

SNO	BATCH	ROLL NO.	NAME OF CANDIDATE FATHER'S NAME	SIGN. OF CANDIDATE
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1		222598	PRIYANKA NAINI WAL ASHOK KUMAR NAINI WAL	Priyanka
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2		222599	ROHIT MEENA JAGDISH MEENA	Rohit
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total No of student = 02

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Gandhi

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80501-M.Sc. CHEMISTRY SEMESTER-I EXAM.-DEC.-2021
8055-BIOLOGY FOR CHEMISTS-(-INT)

Batch NO: 5320

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	222598	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	30	29
2	222599	ROHIT MEENA	JAGDISH MEENA	30	28

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Signature of Internal Examiner

Signature of External Examiner
DR. BHARTIY SHARMA

Date of Submission.....

25-Jun-2022

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Maa Bharti P. G. College Kolar
M.Sc III Sem Chem (2021-22)
Paper - I Chromatography
Mid Term - I

MM-15

Time 1 hr

Answer the following questions.

Q1. What do you understand by derivatization in HPLC? when it is preferred & explain it with suitable examples. (5)

OR

Discuss the mechanism of ion-exchange chromatography (IEC) and factors affecting separation factor in IEC.

Q2. What is the basic principle of HPLC. (5)

Q3. Each questions carry 1 mark

(A) Define Gradient Elution mode of chromatographic methods.

(B) What are cation exchange resins? Give two examples.

(C) What are the moving & stationary phases in paper chromatography

(D) What is HPLC.

(E) Give in brief principle of size exclusion chromatography.

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Maa Bharti P. G. College Kota
M.Sc II sem chemistry 2021-22

Paper-I chromatography

Mid Term - II

MM-15

Time 1 hr

Answer the following Questions

Q1. Give the principle and application of flash chromatography. (5)

Or

What is gas chromatography? Discuss its application in quantitative & qualitative analysis. $2\frac{1}{2} \times 2 = (5)$

Q2. Describe the factors affecting column efficiency of chromatographic technique. (5)

Q3. Which adsorbent is used in column chromatography? (5)

817

UNIVERSITY OF KOTA

ATTENDANCE SHEET

NAME OF COLLEGE:
NAME OF EXAMINATION:
SUBJECT WITH CODE:11 : MAA BHARTI P.G. MAHAVIDHYALYA, KOTA
B.Sc. CHEMISTRY SEM.-III EXAM-DEC -2021

8081: CHROMATOGRAPHY-INT

ONRNO- 5460

CATEGORY: REG/EX

DAY & DATE OF EXAMINATION:

16th June 2022

SNO | BATCH | ROLL NO.

NAME OF CANDIDATE
FATHER'S NAME

VISION OF CANDIDATE

1		212931	BHAVANA SINGHAL HENRAJ GUPTA	शिवानी सिंगल
2		212932	DIKSHA NAGAR YOGESH KUMAR NAGAR	डिक्शा
3		212933	KOMAL RAJWANI PURUSHOTTAM RAJWANI	Komal
4		212935	HANOJ KUMAR MENTA KANHAJIYA LAL MENTA	हनुज
5		212936	NIRMALA JAISWAL MURLI DHAR JAISWAL	Nirmala
6		212938	SHIVANI JAIN CHANDRA PRAKASH JAIN	Shivani
7		212939	SHIVANI SOLANKI BALBEER SINGH SOLANKI	Shivani

Total Present = 07

Absent = Nil

Total = 07

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**UNIVERSITY OF KOTA, KOTA****11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA****80503-M.Sc. CHEMISTRY SEMESTER-III EXAM - ♦ DEC 2021****8081-CHROMATOGRAPHY-(-INT)****Batch NO: 5460**

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	212931	BHAVANA SINGHAL	HEMRAJ GUPTA	30	28
2	212932	DIKSHA NAGAR	YOGESH KUMAR NAGAR	30	29
3	212933	KOMAL RAJWANI	PURUSHOTTAM RAJWANI	30	21
4	212935	MANOJ KUMAR MEHTA	KANHAIYA LAL MEHTA	30	28
5	212936	NIRMLA JAISWAL	MURLI DHAR JAISWAL	30	27
6	212938	SHIVANI JAIN	CHANDRA PRAKASH JAIN	30	28
7	212939	SHIVANI SOLANKI	BALBEER SINGH SOLANKI	30	26

Signature of Internal Examiner

Date of Submission.....



Shanu
Signature of External Examiner
DR. SHANU MATHUR

22-Jun-2022

MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. III Sem. Chemistry (2021-22)

Mid Term I

Paper II Spectroscopy

Time-1 Hr

MM-15

Answer the following questions.

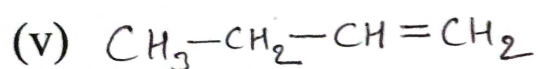
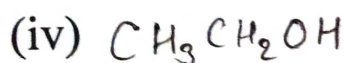
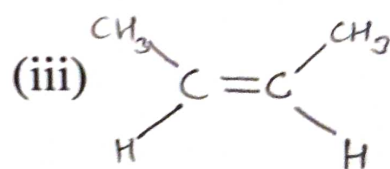
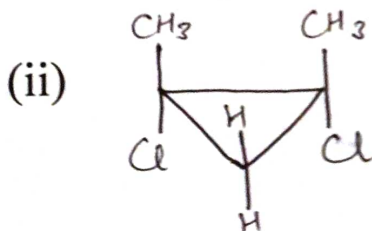
1. Explain Chemical Shift. (2.5)

2. Explain number of signals by taking suitable example. (2.5)

3. Explain types of transition in UV Spectroscopy and effect of solvent on transition. (3)

4. Define Auxochrome or Chromophore. (2)

5. Give NMR signals for the following structure (5)



MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. III Sem. Chemistry (2021-22)

Mid Term II

Paper II Spectroscopy

Time-1 Hr

MM-15

Answer the following questions. (Attempt any three)

1. Why C-12 is NMR inactive and C-13 is NMR active? Explain it. (5)
2. Define the term 'molecular ion' and metastable ion in the MS Spectroscopy. (5)
3. Write a note on the following (2.5X2=5)
 - (i) Shielding and De-shielding of Nuclei
 - (ii) Factors affecting Chemical Shift
4. Write a note on the following (2.5X2=5)
 - (i) Base peak
 - (ii) Isotopic peak

UNIVERSITY OF KOTA
ATTENDANCE SHEET

NAME OF COLLEGE: 11 : MAA BHARTI P.G. MAHAVIDHYALYA, KOTA
NAME OF EXAMINATION: M.Sc. CHEMISTRY SEM.-III EXAM-DEC.-2021

SUBJECT WITH CODE: 8082: SPECTROSCOPY-INT

OMRNO- 5462

CATEGORY: REG/EX

DAY & DATE OF EXAMINATION:

17th June 2022

SNO	BATCH	ROLL NO.	NAME OF CANDIDATE FATHER'S NAME	SIGN. OF CANDIDATE
1		212931	BHAVANA SINGHAL HEMRAJ GUPTA	भवना सिंहल
2		212932	DIKSHA NAGAR YOGESH KUMAR NAGAR	Diksha
3		212933	KOMAL RAJWANI PURUSHOTTAM RAJWANI	Komal
4		212935	MANOJ KUMAR MEHTA KANHAIYA LAL MEHTA	मनोज
5		212936	NIRMLA JAISWAL MURLI DHAR JAISWAL	Nirmala
6		212938	SHIVANI JAIN CHANDRA PRAKASH JAIN	Shivani
7		212939	SHIVANI SOLANKI BALBEER SINGH SOLANKI	Shivani

Total Present = 07

Absent = Nil

Total Present = 07

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11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

80503-M.Sc. CHEMISTRY SEMESTER-III EXAM - ♦ DEC 2021
8082-SPECTROSCOPY-(-INT)

Batch NO: 5462

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	212931	BHAVANA SINGHAL	HEMRAJ GUPTA	30	27
2	212932	DIKSHA NAGAR	YOGESH KUMAR NAGAR	30	29
3	212933	KOMAL RAJWANI	PURUSHOTTAM RAJWANI	30	19
4	212935	MANOJ KUMAR MEHTA	KANHAIYA LAL MEHTA	30	29
5	212936	NIRMLA JAISWAL	MURLI DHAR JAISWAL	30	27
6	212938	SHIVANI JAIN	CHANDRA PRAKASH JAIN	30	28
7	212939	SHIVANI SOLANKI	BALBEER SINGH SOLANKI	30	25

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Date of Submission.....



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Signature of External Examiner
DR. SHANU MATHUR

22-Jun-2022

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25.04.2024 10:51

MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. III Sem. Chemistry (2021-22)

Mid Term I

Paper III Organic Synthesis

Time-1 Hr

MM-15

Answer the following questions. (Attempt any three)

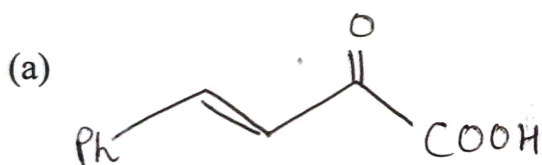
1. Answer the following:

(0.5X2=1)

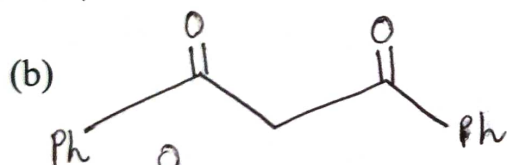
(i) What is disconnection?

(ii) What is Chemo selectivity?

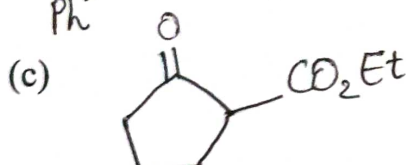
2. Write down the retrosynthesis analysis and the designed synthesis of the following target molecules.



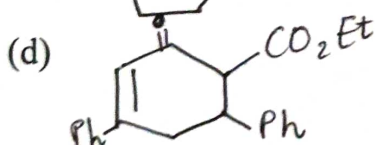
(2.5)



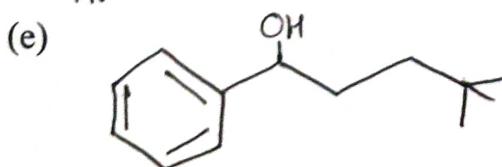
(2.5)



(3)



(3)



(3)

3. (a) Define the following terms with example that are used in synthesis of

(7)

(i) Synthon

(ii) Synthetic equivalent

(iii) Functional group interconversion

(b) Discuss guidelines of Chemo-selectivity with examples.

SHWETA SAXENA

(7)

25.04.2024 10:51

MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. III Sem. Chemistry (2021-22)

Mid Term II

Paper III Organic Synthesis

Time-1 Hr

MM-15

Answer the following questions.

1. Explain the following reaction mechanism

(5)

- (i) Bartan Reaction
- (ii) Oxidation by RuO_4

2. Explain the oxidation of Hydrazine and aromatic ring.

(5)

3. Explain the oxidation of Ketals and Iodobenzene Diacetate.

(5)

Maa Bharti P.G. College Kota
Department of Chemistry
Mid Term Sem Examination 2021-22

Paper: Organic chemistry (Synthesis)

Date :- 19 June 2022

Semester: III

ATTENDANCE SHEET

S. No.	STU NAME	FATHERS NAME	Sign
1	BHAVANA SINGHAL	HEMRAJ GUPTA	<u>Bhavana Singh</u>
2	DIKSHA NAGAR	YOGESH KUMAR NAGAR	<u>Diksha</u>
3	KOMAL RAJWANI	PURUSHOTTAM RAJWANI	<u>Komal</u>
4	MANOJ KUMAR MEHTA	KANHAIYA LAL MEHTA	<u>Manoj</u>
5	NIRMLA JAISWAL	MURLIDHAR JAISWAL	<u>Nirmala</u>
6	SHIVANI JAIN	CHANDRA PRAKASH JAIN	<u>Shivani</u>
7	SHIVANI SOLANKI	BALBEER SINGH SOLANKI	<u>Shivani</u>

Neeru
solanki

Total No of student Present = 07
Absent = NIL

Total = 07

**UNIVERSITY OF KOTA, KOTA****11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA****80503-M.Sc. CHEMISTRY SEMESTER-III EXAM - ♦ DEC 2021****8083-ORGANIC SYNTHESIS-(-INT)****Batch NO: 5464**

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	212931	BHAVANA SINGHAL	HEMRAJ GUPTA	30	29
2	212932	DIKSHA NAGAR	YOGESH KUMAR NAGAR	30	30
3	212933	KOMAL RAJWANI	PURUSHOTTAM RAJWANI	30	22
4	212935	MANOJ KUMAR MEHTA	KANHAIYA LAL MEHTA	30	29
5	212936	NIRMLA JAISWAL	MURLI DHAR JAISWAL	30	27
6	212938	SHIVANI JAIN	CHANDRA PRAKASH JAIN	30	28
7	212939	SHIVANI SOLANKI	BALBEER SINGH SOLANKI	30	26

Signature of Internal Examiner

Date of Submission.....



Shanu
Signature of External Examiner
DR. SHANU MATHUR

22-Jun-2022

Maa Bharti P. G. College, Kota
M.Sc III Sem Chemistry 2021-22
Paper - IV Heterocyclic Chemistry
Mid Term - I

MM-15

Time 1 hr

Answer the following questions -

Q1. Write the synthetic methods of Coumarin (5)

Or
Write the synthetic methods of chromone. (5)

Q2. Describe the synthesis of 2 & 4 pyrenes (5)

Q3. Describe the synthesis, chemical reactions & medicinal importance of benzodiazepines (5)

Maa Bharti P. G. College, Kota
 M.Sc III Sem Chemistry 2021-22
 Paper-IV Heterocyclic chemistry
 Mid Term-II

Time 1 hr

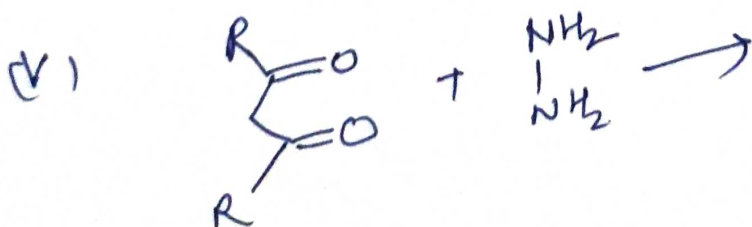
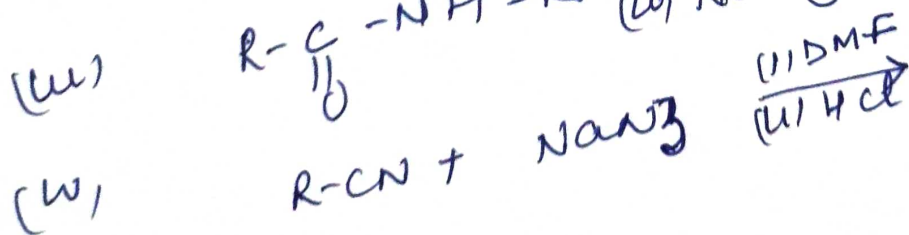
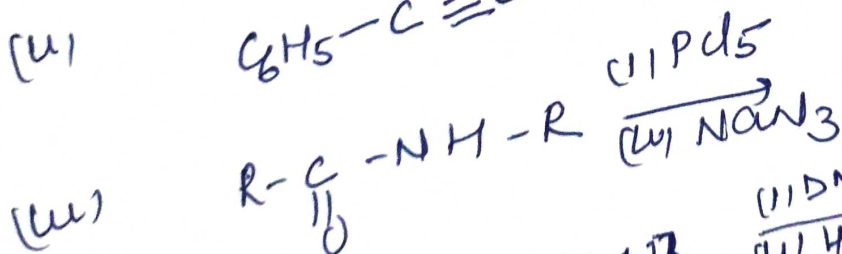
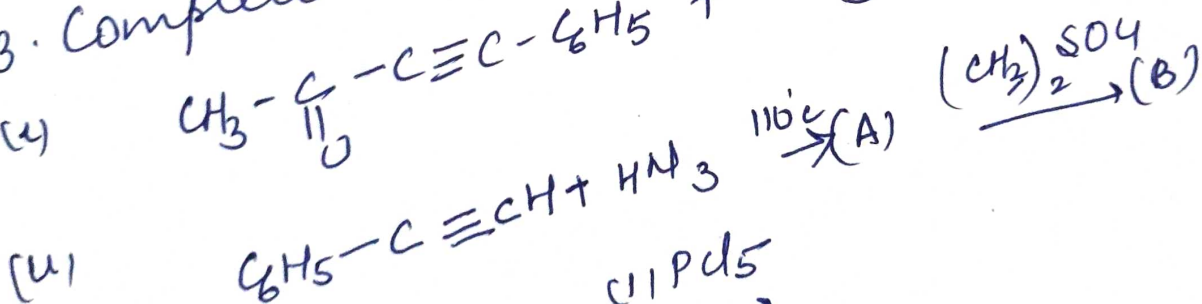
MM-15

Answer the following questions

- Q1. Explain the following. $2\frac{1}{2} \times 2 = (5)$
- (A) Reissert Indole synthesis.
- (B) Fischer indole synthesis.

- Q2. Discuss the aromaticity, stability and reactivity of pyrrole, furan and thiophene. (5)

- Q3. Complete the following reactions: - (1x5=5)
- (i) $\text{CH}_3 - \text{C}(=\text{O}) - \text{C} \equiv \text{C} - \text{C}_6\text{H}_5 + \text{CH}_3\text{NH-NH}_2 \rightarrow$



UNIVERSITY OF KOTA
ATTENDANCE SHEETNAME OF COLLEGE: 11 : MAA BHARTI P.G. MAHAVIDHYALYA, KOTA
NAME OF EXAMINATION: M.Sc. CHEMISTRY SEM.-III EXAM-DEC.-2021

SUBJECT WITH CODE: 8084: HETEROCYCLIC CHEMISTRY-INT

ONRNO- 5466

CATEGORY: REG/EX

DAY & DATE OF EXAMINATION: 20th June 2022

SNO : BATCH : ROLL NO.

NAME OF CANDIDATE
FATHER'S NAME

SIGN. OF CANDIDATE

1	212931	BHAVANA SINGHAL HEMRAJ GUPTA	भावना सिंघल
2	212932	DIKSHA NAGAR YOGESH KUMAR NAGAR	Diksha
3	212933	KOMAL RAJWANI PURUSHOTTAM RAJWANI	Komal
4	212935	MANOJ KUMAR MEHTA KANHAIYA LAL MEHTA	मनोज
5	212936	NIRMLA JAISWAL MURLI DHAR JAISWAL	Nirmala
6	212938	SHIVANI JAIN CHANDRA PRAKASH JAIN	Shivani
7	212939	SHIVANI SOLANKI BALBEER SINGH SOLANKI	Shivani

Total Present = 07

Absent = Nil

Total = 07

ONE COPY BE RETAINED BY THE CENTRE SUPDT. AND ONE COPY OF THE ATTENDANCE SHEET RETAINED BY THE UNIVERSITY OFFICE
PRINCIPAL COPY OF AWARDS IS TO BE FILLED ON BLANK AWARD LIST IN SEQUENCE OF ROLLSNOS WHICH ARE BEING SENT WITH PRACTICAL MATERIAL

SIGNATURE OF INTERNAL EXAMINERS

SIGNATURE OF EXTERNAL EXAMINERS

SHWETA SAXENA

25.04.2024 10:51

**UNIVERSITY OF KOTA, KOTA****11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA****80503-M.Sc. CHEMISTRY SEMESTER-III EXAM - ♦ DEC 2021**
8084-HETEROCYCLIC CHEMISTRY-(-INT)**Batch NO: 5466**

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	212931	BHAVANA SINGHAL	HEMRAJ GUPTA	30	29
2	212932	DIKSHA NAGAR	YOGESH KUMAR NAGAR	30	28
3	212933	KOMAL RAJWANI	PURUSHOTTAM RAJWANI	30	20
4	212935	MANOJ KUMAR MEHTA	KANHAIYA LAL MEHTA	30	28
5	212936	NIRMLA JAISWAL	MURLI DHAR JAISWAL	30	26
6	212938	SHIVANI JAIN	CHANDRA PRAKASH JAIN	30	27
7	212939	SHIVANI SOLANKI	BALBEER SINGH SOLANKI	30	26

Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner
DR. SHANU MATHUR

22-Jun-2022



Maa Bharti P. G. College, Kota

Mahaveer Nagar III, Sector-8
Kota-324005, Rajasthan
E-mail-mbpgcollege@yahoo.com

NOTICE

Ref. No.:

Date: 10/11/22

All students of M.Sc. Chemistry I and III Semester are informed that their first midterm exam will commence from 18th November 2022. Students should be regular during mid-term exams. Mid-term exam Time-Table is as follows:

Mid-Term I

M.Sc. Sem. I

Time: 9:00 a.m.

Date	Paper
18 th November 2022	Inorganic Chemistry-I
19 th November 2022	Organic Chemistry-II
21 st November 2022	Physical Chemistry-III
22 nd November 2022	Biology/Maths-IV

M.Sc. Sem. III

Time: 9:00 a.m.

Date	Paper
18 th November 2022	Chromatography-I
19 th November 2022	Spectroscopy-II
21 st November 2022	Organic Synthesis-III
22 nd November 2022	Heterocyclic Chemistry-IV

B. Shrivastava
Department of Chemistry
Head of Department
CHEMISTRY
Maa Bharti P. G. College
Mahaveer Nagar- III, Kota (Raj.)



Shweta Saxena
Principal
मौ भारती स्नातकोत्तर महाविद्यालय
महावीर नगर तृतीय, कोटा

SHWETA SAXENA

25.04.2024 10:51



Maa Bharti P. G. College, Kota

Mahaveer Nagar III, Sector-8
Kota-324005, Rajasthan
E-mail-mbpgcollege@yahoo.com

NOTICE

Ref. No.:

Date: 13/02/2023

All students of M.Sc. Chemistry I and III Semester are informed that their first midterm exam will commence from 20th February 2023. Students should be regular during mid-term exams. Mid-term exam Time-Table is as follows:

Mid-Term II

M.Sc. Sem. I

Time: 9:00 a.m.

Date	Paper
20 th February 2023	Inorganic Chemistry-I
21 st February 2023	Organic Chemistry-II
22 nd February 2023	Physical Chemistry-III
23 rd February 2023	Biology/Maths-IV

M.Sc. Sem. III

Time: 9:00 a.m.

Date	Paper
20 th February 2023	Chromatography-I
21 st February 2023	Spectroscopy-II
22 nd February 2023	Organic Synthesis-III
23 rd February 2023	Heterocyclic Chemistry-IV

B. Sharma
Department of Chemistry
Head of Department
CHEMISTRY
Maa Bharti P. G. College
Mahaveer Nagar- III, Kota (Raj.)



Shweta Saxena
Principal
मौ भारती स्नातकोत्तर महाविद्यालय
महवीर नगर, कोटा

25.04.2024 10:51

Maa Bharti P.G. College Kota

M.Sc I Sem Chemistry (2022-23)

Paper - I Inorganic Chemistry
Midterm-I

MM-15

Time - 1 hr

Attempt any three questions

Q1. Explain VSEPR theory & give its limitations. (5)

Q2. Describe Bent rule and energetics of hybridization (5)

Q3. Explain Walsh diagram for triatomic molecules. (5)

Q4. Describe Jahn Teller effect. (5)

Q5. Give limitation of crystal field theory (5)

Maa Bharti P. G. College, Kota
M.Sc I Sem Chemistry (2022-23)

Mid Term - II

Paper-I Inorganic Chemistry

MM-15

Time 1 hr

Answer the following questions.

- Q1. Explain the bonding in octahedral complexes with the help of molecular orbital theory. (3)
- Q2. Explain n_3 system with reference to molecular orbital theory (3)
- Q3. Describe limitation of crystal field theory. (3)
- Q4. Describe π bonding in square planar complexes. (3)
- Q5. Explain MOT of tetrahedral complexes. (3)

Maa Bharti P.G. College Kota

Department Of Chemistry

M.Sc. Chemistry I Sem (2022-23)

Mid-Term II

Subject: Inorganic Chemistry-I

Semester-I

Date: 20/02/2023

Attendance sheet

S. No.	Student's Name	Father's Name	Signature
1	ADITI ACHARYA	Balmukund Acharya	अदिति आचार्य
2	BENIRAM MEHTA	Ramavtar	Beniram
3	DEELIP MEENA	Ramchran Meena	दिलीप मीना
4	DEEPAK BANJARA	Premchand Banjara	दीपक बनजारा
5	DUSHYANT KUMAR MEENA	Tulsi Ram Meena	dushyant
6	GUNJAN NAMA	Raju Nama	gunjan nama
7	HARISH RATHOR	Mohan Rathor	Harish
8	KANIKA PRAJAPATI	Pradeep Kumar Prajapati	Kanika Prajapati
9	KULDEEP NAGAR	Bhagwan Lal Nagar	कुलदीप नगर
10	MANISH KUMAR GOCHER	Radhe Shyam Gocher	Manish
11	NITESH VAISHNAV	Radhe Shyam Vaishnav	Nitesh
12	RATIK SHARMA	Mahendra Sharma	रतिक शर्मा
13	RUCHI SHARMA	Sudarshan Sharma	Ruchi Sharma
14	SURBHI TAILOR	Lalit Tailor	सुरभि टेलर

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Total No of Student Present: 14 Internal
Absent = NIL
Total = 14

SHWETA SAXENA

25.04.2024 10:51



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

12001-MSC. CHEMISTRY I-SEMESTER EXAM.DEC.-2022 (NEW SCHEME)
12001-INORGANIC CHEMISTRY-(INT)

Batch NO: 36022

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	237621	ADITI ACHARYA	BALMUKUND ACHARYA	30	30
2	237622	BENIRAM MEHTA	RAMAVTAR	30	25
3	237623	DEELIP MEENA	RAMCHRAN MEENA	30	26
4	237624	DEEPAK BANJARA	PREMCHAND BANJARA	30	27
5	237625	DUSHYANT KUMAR MEENA	TULSI RAM MEENA	30	26
6	237626	GUNJAN NAMA	RAJU NAMA	30	29
7	237627	HARISH RATHOR	MOHAN RATHOR	30	28
8	237628	KANIKA PRAJAPATI	PRADEEP KUMAR PRAJAPATI	30	29
9	237629	KULDEEP NAGAR	BHAGWAN LAL NAGAR	30	26
10	237630	MANISH KUMAR GOCHER	RADHESHYAM GOCHER	30	27
11	237631	NITESH VAISHNAV	RADHESHYAM VAISHNAV	30	26
12	237632	RATIK SHARMA	MAHENDRA SHARMA	30	29
13	237633	RUCHI SHARMA	SUDARSHAN SHARMA	30	29
14	237634	SURBHI TAILOR	LALIT TAILOR	30	28

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Signature of Internal Examiner

Date of Submission.....13/4/23

Signature of External Examiner

13-Apr-2023

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P.U. College, Kolar

M.Sc. I sem (2022-23)

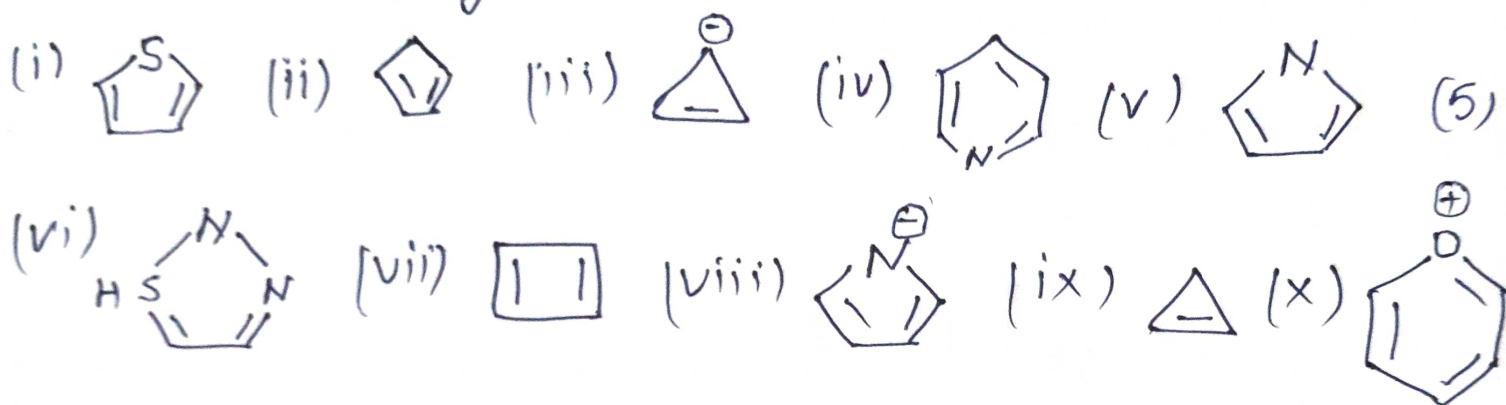
Mid-term - I

Sub:- organic chemistry

MM-15

Time - 1hr

Q.1 Using the criteria for aromaticity, determine if the following molecules are aromatic:

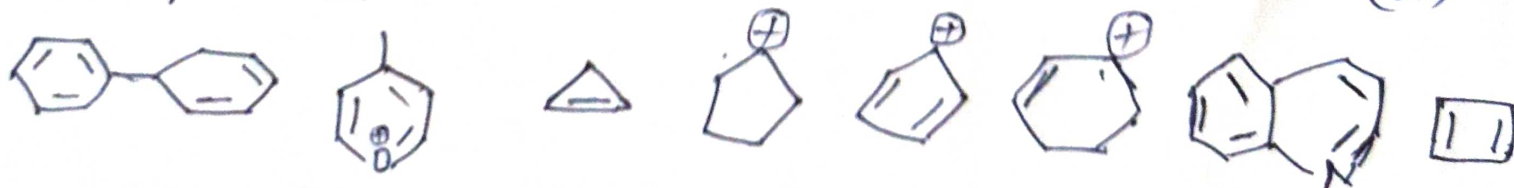


Q.2 Write notes on: (Any two) $2 \frac{1}{2} \times 2 = 5$

- (i) Cryptands (ii) Homo-aromaticity
(iii) Crown ether (iv) Hückel rule

Q.3.

(a) I identify the aromatic, anti-aromatic and non aromatic compound of the following compounds.



(b) Give two methods of generation of carbene and nitrene.

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25.04.2024 10:51

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Maa Bharti P.G. College, Kota

M.Sc I Sem Chemistry (2022-2023)

Paper - II Organic Chemistry
MidTerm - I

MM-15

Time 1 hr

Attempt any three questions.

Q1. Derive the Hammett equation. Explain the physical significance of substituent and reaction constant. (5)

Q2 write short notes on: $2\frac{1}{2} \times 2 = 5$

(i) Isotope effect

(ii) Carbene & Nitrene

Q3 write short notes on: $2\frac{1}{2} \times 2 = 5$

(i) S_N^i mechanism

(ii) Phase transfer Catalysis

Q4 Give Brief notes on the following $2\frac{1}{2} \times 2 = 5$

(i) Ortho / Para ratio

(ii) Reimer - Tiemann reaction

Q5 what is Huckel rule. Explain the aromaticity in benzenoid compounds by suitable examples. (5)

Maa Bharti P.G. College Kota

Department Of Chemistry

M.Sc. Chemistry I Sem (2022-23)

Mid-Term II

Subject Organic chemistry-II

Semester-I

Date:- 21/04/2023

Attendance sheet

S. No.	Student's Name	Father's Name	Signature
1	ADITI ACHARYA	Balmukund Acharya	आदिति आचार्य
2	BENIRAM MEHTA	Ramavtar	Beniran
3	DEELIP MEENA	Ramchran Meena	दिलीप मेहना
4	DEEPAK BANJARA	Premchand Banjara	दीपक बान्जरा
5	DUSHYANT KUMAR MEENA	Tulsi Ram Meena	dushyant
6	GUNJAN NAMA	Raju Nama	gunjan Name
7	HARISH RATHOR	Mohan Rathor	Harish
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9	KULDEEP NAGAR	Bhagwan Lal Nagar	कुलदीप नगर
10	MANISH KUMAR GOCHER	Radhe Shyam Gocher	Manish
11	NITESH VAISHNAV	Radhe Shyam Vaishnav	Nitesh
12	RATIK SHARMA	Mahendra Sharma	रतिक शर्मा
13	RUCHI SHARMA	Sudarshan Sharma	Ruchi Sharma
14	SURBHI TAILOR	Lalit Tailor	सुरभि टेलर

Total no. of students

Present - 14

Absent - nil

Total - 14

Nery
Internal

SHWETA SAXENA

25.04.2024 10:51



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

12001-MSC. CHEMISTRY I-SEMESTER EXAM.DEC.-2022 (NEW SCHEME)

12002-ORGANIC CHEMISTRY-(INT)

Batch NO: 36024

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	237621	ADITI ACHARYA	BALMUKUND ACHARYA	30	30
2	237622	BENIRAM MEHTA	RAMAVTAR	30	25
3	237623	DEELIP MEENA	RAMCHHRAN MEENA	30	26
4	237624	DEEPAK BANJARA	PREMCHAND BANJARA	30	27
5	237625	DUSHYANT KUMAR MEENA	TULSI RAM MEENA	30	26
6	237626	GUNJAN NAMA	RAJU NAMA	30	29
7	237627	HARISH RATHOR	MOHAN RATHOR	30	27
8	237628	KANIKA PRAJAPATI	PRADEEP KUMAR PRAJAPATI	30	29
9	237629	KULDEEP NAGAR	BHAGWAN LAL NAGAR	30	26
10	237630	MANISH KUMAR GOCHER	RADHESHYAM GOCHER	30	27
11	237631	NITESH VAISHNAV	RADHESHYAM VAISHNAV	30	26
12	237632	RATIK SHARMA	MAHENDRA SHARMA	30	29
13	237633	RUCHI SHARMA	SUDARSHAN SHARMA	30	29
14	237634	SURBHI TAILOR	LALIT TAILOR	30	28

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Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

13-Apr-2023

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P.G. College, Kola

M.Sc I Sem (2022-23)

Paper - (I) (Physical Chemistry)

Mid-term - I Examination

Time: 1 hr

M.M.: - 15

Attempt any three questions.

- Q.1 Describe the Postulates of quantum Mechanics. 5
- Q.2 Write note on Dual Nature of radiation and Heisenberg uncertainty Principle. 5
- Q.3 Derive the Schrodinger wave equation. 5
- Q.4 Explain the Flow method of Fast reactions. 5
- Q.5 Discuss the perturbation theory. 5

Maa Bharti P.G. college, Kota

M.Sc I Sem (2022-23)

Paper-III Physical Chemistry

Time 1hr

M.M-15

- Q.1 collision theory of reaction rate (5)
- Q.2 Explain the ^{or} salt effect. (5)
- Q.3 Explain Lindemann theory. (3)
- Q.4 Discuss the Huckel theory of conjugated systems. (2)
- Q.5 Explain activated complex theory for bimolecular reactions. (5)
- Q.6 Derive ^{or} thermodynamically the Gibbs adsorption isotherm for the adsorption of a solute on the surface of liquid. (5)

Maa Bharti P.G. College Kota

Department Of Chemistry

M.Sc. Chemistry I Sem (2022-23)

Mid-Term II

Subject Physical chemistry-III

Semester-I

Date:- 22/02/2023

Attendance sheet

S. No.	Student's Name	Father's Name	Signature
1	ADITI ACHARYA	Balmukund Acharya	अदिति आचार्य
2	BENIRAM MEHTA	Ramavtar	Beniram
3	DEELIP MEENA	Ramchran Meena	दिलीप मीना
4	DEEPAK BANJARA	Premchand Banjara	दीपक बंजारा
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11	NITESH VAISHNAV	Radhe Shyam Vaishnav	Nitesh
12	RATIK SHARMA	Mahendra Sharma	रतिक शर्मा
13	RUCHI SHARMA	Sudarshan Sharma	Ruchi Sharma
14	SURBHI TAILOR	Lalit Tailor	सुरभि टेलर

Total No. of Student Present = 14

Absent = Nil

Total = 14

B. Shauve
Tutorial

SHWETA SAXENA

25.04.2024 10:51



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

12001-MSC. CHEMISTRY I-SEMESTER EXAM.DEC.-2022 (NEW SCHEME)

12003-PHYSICAL CHEMISTRY-(INT)

Batch NO: 36026

r.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	237621	ADITI ACHARYA	BALMUKUND ACHARYA	30	30
2	237622	BENIRAM MEHTA	RAMAVTAR	30	26
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8	237628	KANIKA PRAJAPATI	PRADEEP KUMAR PRAJAPATI	30	30
9	237629	KULDEEP NAGAR	BHAGWAN LAL NAGAR	30	26
10	237630	MANISH KUMAR GOCHER	RADHESHYAM GOCHER	30	25
11	237631	NITESH VAISHNAV	RADHESHYAM VAISHNAV	30	27
12	237632	RATIK SHARMA	MAHENDRA SHARMA	30	29
13	237633	RUCHI SHARMA	SUDARSHAN SHARMA	30	29
14	237634	SURBHI TAILOR	LALIT TAILOR	30	29

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

13-Apr-2023

SHWETA SAXENA

25.04.2024 10:51

Time - 1 hr

Attempt Any three Questions

Q1. Differentiate w.r.t to x :

$$\frac{e^x (\sin x + \tan x)}{1 + x^3 + \log x}$$
 (5)

Q2. Solve the following linear equation by Row transformation formation

$$\begin{aligned} 5x - y + 2z &= 9 \\ 3x + y &= 5 \\ x + y + z &= 6 \end{aligned}$$
 (5)

Q3. Find the line of regression of the data set:

x	y
10	7
12	6
14	8
16	9
18	12

 (5)

Q4. Integrate $e^x \sin x$ w.r.t x . (5)

Q5. Solve the differential equation
 $(3x + 4y + 5) dx = (4x + 6y + 3) dy$ (5)

Maa Bharti P G College, Kota

M.Sc I sem chemistry (2022-23)

Paper - II Mathematics for chemist MM-15
Mid Term - II

Time - 1 hr

Answer the following questions.

Q1. Find maxima and minima of : (3) (4)
 $\sin x + \sin y + \sin(x+y)$

Q2. Evaluate :

(a) $\int \frac{\sec^4(x)}{\sqrt{\tan x}} dx$

(3)

(ii) $\int \frac{(3x+1)}{(3x^2+2x+1)^3} dx$

(3)

Q3 Find standard deviation of
Poisson distribution. (5)

Or

(A) Solve differential equation
 $\cos(x+y) dy = dx$. (3)

(B) obtain partial derivatives of :
 $z = (x^2 + y^2)^{-1/2}$ (2)
with respect to x and y .

Maa Bharti P.G. College Kota

Department Of Chemistry

M.Sc. Chemistry I Sem (2022-23)

Mid-Term II

Subject Maths for Chemists-IV

Semester-I

Date:- 23/04/2023

Attendance sheet

S. No.	Student's Name	Father's Name	Signature
1	ADITI ACHARYA	Balmukund Acharya	अदिती आचार्य
2	BENIRAM MEHTA	Ramavtar	Beniram
3	DEELIP MEENA	Ramchran Meena	दीलीप मीणा
4	DEEPAK BANJARA	Premchand Banjara	दीपक बनजारा
5	GUNJAN NAMA	Raju Nama	Gunjan Nama
6	HARISH RATHOR	Mohan Rathor	Harish
7	KANIKA PRAJAPATI	Pradeep Kumar Prajapati	Kanika Prajapati
8	KULDEEP NAGAR	Bhagwan Lal Nagar	कुलदीप नागर
9	MANISH KUMAR GOCHER	Radhe Shyam Gocher	Manish
10	NITESH VAISHNAV	Radhe Shyam Vaishnav	Nitesh
11	RUCHI SHARMA	Sudarshan Sharma	Ruchi Sharma
12	SURBHI TAILOR	Lalit Tailor	सुरभि टेलर

Total No. of students present = 12

Absent = Nil.

Total = 12

Pradeep
Internal

SHWETA SAXENA

25.04.2024 10:51



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

12001-MSC. CHEMISTRY I-SEMESTER EXAM.DEC.-2022 (NEW SCHEME)
12004-MATHEMATICS FOR CHEMISTS-(INT)

Batch NO: 36028

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	237621	ADITI ACHARYA	BAI MUKUND ACHARYA	30	30
2	237622	BENIRAM MEHTA	RAMAVTAR	30	26
3	237623	DEELIP MEENA	RAMCHRAN MEENA	30	27
4	237624	DEEPAK BANJARA	PREMCHAND BANJARA	30	25
5	237626	GUNJAN NAMA	RAJU NAMA	30	29
6	237627	HARISH RATHOR	MOHAN RATHOR	30	29
7	237628	KANIKA PRAJAPATI	PRADEEP KUMAR PRAJAPATI	30	26
8	237629	KULDEEP NAGAR	BIHAGWAN LAL NAGAR	30	26
9	237630	MANISH KUMAR GOCHER	RADIL SHYAM GOCHER	30	27
10	237631	NITESH VAISHNAV	RASHIESHYAM VAISHNAV	30	26
11	237633	RUCHI SHARMA	SUDARSHAN SHARMA	30	29
12	237634	SURBHI TAILOR	LALIT TAILOR	30	27

Pradeep

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

13-Apr-2023

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P.H. College, Kolkata

M.Sc. I Sem Chemistry

Sub: - Biology for Chemist Mid Term - I

Session: - (2022-2023)

M.M: 15

- Q1. (i) Define Anabolism. Give example. (1x5=5)
(ii) Name the scientist who had experimentally proved the biochemical origin of life.
(iii) Write the molecular structure of ATP.
(iv) Define Non reducing sugar Give example of the same.
(v) Name the type of glycoside linkage found in sucrose.

Q2 Describe in detail, the structure and functions of Nucleus in a cell. (5)

Q3. Draw a well labelled diagram of (5)
typical Eukaryotic plant cell and compare it with prokaryotic cell.

Maa Bharti P.G. College Kola

M.Sc I Sem Chemistry (2022-23)

Paper - IV Biology for chemist

Time 1hr

Mid Term - II

MM - 15

Q1. Describe the amphoteric nature of amino acids. (5)

Q2. Write the Primary and secondary structure of protein. (5)

Q3. Write short notes on following $2\frac{1}{2} \times 2 = (5)$

- (A) Peptide Bond
- (B) Mitochondrion

Or

Write short notes on: $2\frac{1}{2} \times 2 = (5)$

- (A) Chitin
- (B) Glycogen

Maa Bharti P.G. College Kota

Department Of Chemistry

M.Sc. Chemistry I Sem (2022-23)

Mid-Term II

Subject Biology for Chemists-IV

Semester-I

Date:- 23/02/2023

Attendance sheet

S. No.	Student's Name	Father's Name	Signature
1	DUSHYANT KUMAR MEENA	Tulsi Ram Meena	<u>dushyant</u>
2	RATIK SHARMA	Mahendra Sharma	<u>रतिक शर्मा</u>

Total No. of student Pr. = 02

Ab. - NIL

Total - 02

Chhaya
Internal



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

12001-MSC. CHEMISTRY I-SEMESTER EXAM.DEC.-2022 (NEW SCHEME)
12005-BIOLOGY FOR CHEMISTS-(INT)

Batch NO: 36030

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	237625	DUSHYANT KUMAR MEENA	TULSI RAM MEENA	30	27
2	237632	RATIK SHARMA	MAHENDRA SHARMA	30	29
3	237633	RUCHI SHARMA	MOARSHAN SHARMA	30	NA

Chaya
Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

13-Apr-2023

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P.G. College Kota
M.Sc. III Sem Chemistry (2022-23)
Paper-I Chromatography
Mid Term - I

Time 1 hr

MM-15

Answer the following Questions.

Q1. write a short notes on type of chromatography? (3)

Q2. Discuss about the process of chromatography and principle also? (3)

Q3. explain the following point related to paper chromatography (1½)

- (A) R_f Value
- (B) choice of solvent (1½)

Q4. Give the principle of column chromatography. (3)

Q5. What is the basic principle of HPLC. (3)

aper-I
chromatography M.Sc III Sem Mid term-II
(2022-23)

Each 1x5 = 5

- Q.1 (a) Arrange the following Adsorbents in their increasing Adsorbing Power -
Cellulose, Calcium Carbonate, Charcol, Alumina, Sucrose, Silica gel.
- (b) which kind of compounds can be separated by Gas chromatography?
- (c) What are the two different types of solvent systems used in column chromatography?
- (d) what is the retardation factor? How it is calculated?
- (e) which substances elute first? Is it polar or non-polar?

- Q.2 (i) Define the terms
(a) stationary phase (b) mobile phase (c) ~~elution~~ Elution
- (ii) Describe the factors affecting column efficiency of chromatographic technique.

- Q.3 Write short note on -
(a) Flash chromatography
(b) Multi dimensional Gas-chromatography

- Q.4. Explain the Experimental setup of column chromatography. ~~and its limitations~~

- Q.5 Draw the flow diagram of Gas Chromatography Instrumentation.

MAA BHARTI PG COLLEGE KOTA

Department Of Chemistry

Mid-Term I Session-2022-23

Paper I chromatography

Semester- IIIrd

Date:- 18.11.22

Attendance sheet

Sr. No	Name Of Students	Father's Name	SIGN
1	CHETAN SHARMA	RAKESH CHANDRA SHARMA	Chetan
2	MAHEE VIJAY	DINESH VIJAY	Mahee Vijay
3	MOHIT CHOUHAN	BALRAM CHOUHAN	Mohit
4	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	Narendra
5	NIKITA SINDHVW	SANJAY SINDHAW	Nikita
6	PALLAVI SHARMA	YOGENDRA SHARMA	P. Sharma
7	POOJA KUSHWAHA	VIRENDRA KUMAR KUSHWAHA	Pooja
8	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	Priyanka
9	ROHIT MEENA	JAGDISH MEENA	Rohit
10	SRISHTI GAUR	ANIL GAUR	Srishti
11	SANDEEP TYAGI	LAXMI NARAYAN TYAGI	Sandeep
12	RAKESH KUMAR TELI	PRABHU LAL TELI	Rakesh

Gantam
Internal

Total No of student Present = 12
Absent = NIL

Total = 12



UNIVERSITY OF KOTA, KOTA
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

80503-M.Sc. CHEMISTRY SEMESTER-III EXAM.-DEC.-2022
8081-CHROMATOGRAPHY-(INT)

Batch NO: 36598

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	192786	RAKESH KUMAR TELI	PRABHU LAL TELI	30	26
2	222591	CHETAN SHARMA	RAKESH CHANDRA SHARMA	30	26
3	222592	MAHEE VIJAY	DINESH VIJAY	30	30
4	222593	MOHIT CHOUHAN	BALRAM CHOUHAN	30	29
5	222594	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	30	28
6	222595	NIKITA SINDHAW	SANJAY SINDHAW	30	28
7	222596	PALLAVI SHARMA	YOGENDRA SHARMA	30	29
8	222597	POOJA KUSHWAHA	VIRENDRA SINGH KUSHWAHA	30	28
9	222598	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	30	28
10	222599	ROHIT MEENA	JAGDISH MEENA	30	27
11	222600	SANDEEP TYAGI	LAXMI NARAYAN	30	26
12	222601	SRISHTI GAUR	ANIL GAUR	30	30

Gautam

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

13-Apr-2023

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P.G. College, Kolā

M.Sc. (I) Sem Chemistry

Sub:- Spectroscopy Mid Term - I

Session - (2022-2023)

Explain the following

M.M: 15

Q.1 Chemical Shift

2½

Q.2 Explain no. of signals by taking suitable examples

2½

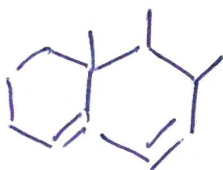
Q.3 Types of transition in U.V. Spectroscopy and effect on solvent on transition.

3

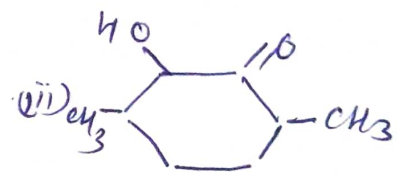
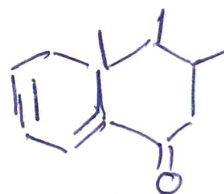
Q.4 Define Auxochrome and Chromophore.

2

Q.5 (i)

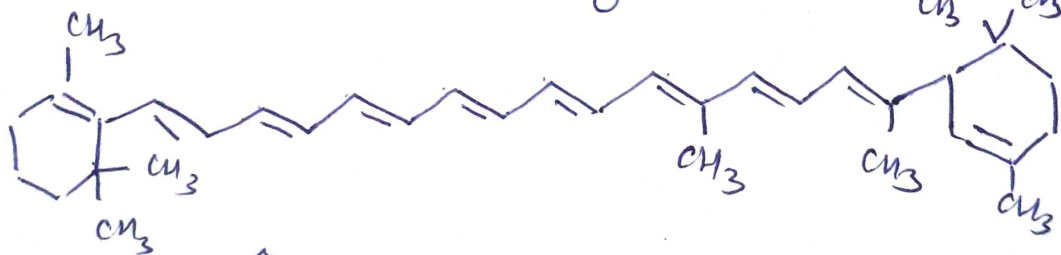


(ii)

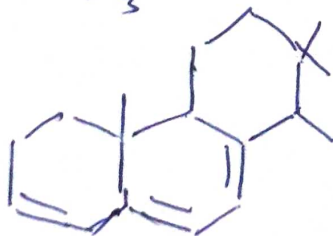


5

(iv)



(v)



Maa Bhaati P.G. College, Kola-

M.Sc. ~~II~~ Sem Chemistry

Sub:- Spectroscopy

Session $\Rightarrow$ 2022-23

Mid term - II

M.M! 15-

Answer the following (Any three)

Q.1 Why C-12 is NMR inactive and C-13 is NMR active? Explain it.

Q.2 Define the terms "molecular ion" and metastable ion in the MS spectrometry.

Q.3 Write note on the following
(i) Shielding and De-shielding of Nuclei.
(ii) Factors affecting chemical shift

Q.4 Write note on the following

- (i) Base peak
- (ii) Isotopic peak

MAA BHARTI PG COLLEGE KOTA

Department Of Chemistry

Mid-Term I Session-2022-23

Paper ... 11 Spectroscopy ...

Date:- 19/Nov/22

Semester- III rd

Attendance sheet

Sr. No	Name Of Students	Father's Name	SIGN
1	CHETAN SHARMA	RAKESH CHANDRA SHARMA	<u>Chetan</u>
2	MAHEE VIJAY	DINESH VIJAY	<u>Mahee Vijay</u>
3	MOHIT CHOUHAN	BALRAM CHOUHAN	<u>Mohit</u>
4	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	<u>Narendra</u>
5	NIKITA SINDHVW	SANJAY SINDHAW	<u>Nikita</u>
6	PALLAVI SHARMA	YOGENDRA SHARMA	<u>P. Sharma</u>
7	POOJA KUSHWAHA	VIRENDRA KUMAR KUSHWAHA	<u>Pooja</u>
8	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	<u>Priyanka</u>
9	ROHIT MEENA	JAGDISH MEENA	<u>Rohit</u>
10	SRISHTI GAUR	ANIL GAUR	<u>Srishti</u>
11	SANDEEP TYAGI	LAXMI NARAYAN TYAGI	<u>Sandeep</u>
12	RAKESH KUMAR TELI	PRABHU LAL TELI	<u>Rakesh</u>

B. Sharma
Internal

Total No of Student Present = 12
Absent = Nil

Total = 12

**UNIVERSITY OF KOTA, KOTA****11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA****80503-M.Sc. CHEMISTRY SEMESTER-III EXAM.-DEC.-2022****8082-SPECTROSCOPY-(INT)****Batch NO: 36599**

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	192786	RAKESH KUMAR TELI	PRABHU LAL TELI	30	25
2	222591	CHETAN SHARMA	RAKESH CHANDRA SHARMA	30	27
3	222592	MAHEE VIJAY	DINESH VIJAY	30	30
4	222593	MOHIT CHOUHAN	BALRAM CHOUHAN	30	28
5	222594	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	30	29
6	222595	NIKITA SINDHAW	SANJAY SINDHAW	30	29
7	222596	PALLAVI SHARMA	YOGENDRA SHARMA	30	30
8	222597	POOJA KUSHWAHA	VIRENDRA SINGH KUSHWAHA	30	28
9	222598	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	30	29
10	222599	ROHIT MEENA	JAGDISH MEENA	30	27
11	222600	SANDEEP TYAGI	LAXMI NARAYAN	30	27
12	222601	SRISHTI GAUR	ANIL GAUR	30	30

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

13-Apr-2023

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P. G. College, Kota

M. Sc. Chemistry III Sem (2022-23)

Paper III → Organic Synthesis

Midterm - I

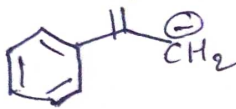
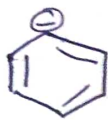
Time: 1 Hr

M.M. = 15

Answer the following questions:

Q.1 What is retrosynthesis? (1)

Q.2 Which of the following synthons is an example of umpolung? (1)



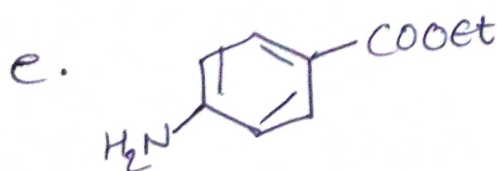
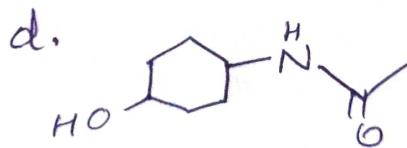
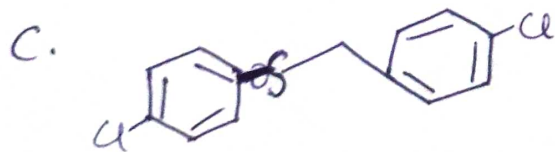
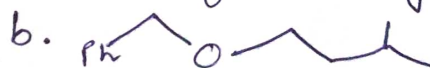
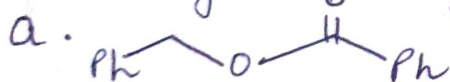
Q.3 Define the following terms with examples as used in synthesis: (3)

(i) Synthon

(ii) Synthetic Equivalent

(iii) Functional Group Interconversion

Q.4 Outline the retrosynthetic analysis and the designed synthesis of the following target molecules



(10)

Or

Q.5 Discuss guidelines of chemoselectivity with examples. (10)

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P. G. College, Kota

M.Sc II Sem Chemistry (2022-23) MM-15

Paper - III (Organic Synthesis)

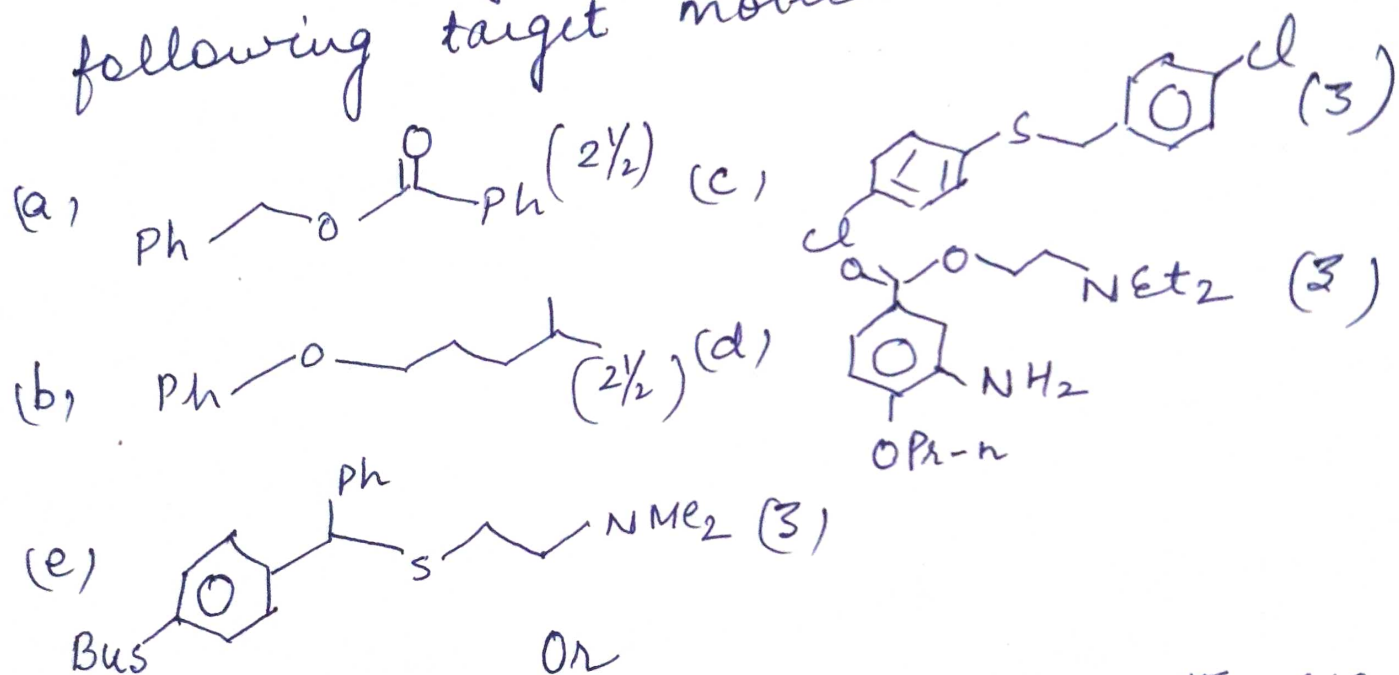
Time 1 hr

Mid Term III

$\frac{1}{2} \times 2 = (1)$ marks

- Q1 (i) what is Disconnection?
(ii) what is chemoselectivity?

Q2 Outline the retrosynthetic analysis and the designed synthesis of the following target molecules.



Q3 (A) Define the following terms with example (7) marks
are used in synthesis

- (i) Synthons (ii) Synthetic equivalent
(iii) Functional Group Interconversion
- (B) Discuss guidelines of chemoselectivity with examples. (7) marks

MAA BHARTI PG COLLEGE KOTA

Department Of Chemistry

Mid-Term I Session-2022-23

Paper organic Synthesis - III

Semester- III

Date:- 21/11/22

Attendance sheet

Sr. No	Name Of Students	Father's Name	SIGN
1	CHETAN SHARMA	RAKESH CHANDRA SHARMA	Chetan
2	MAHEE VIJAY	DINESH VIJAY	Mahee Vijay
3	MOHIT CHOUHAN	BALRAM CHOUHAN	Mohit
4	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	Naren
5	NIKITA SINDHVW	SANJAY SINDHAW	Nikita
6	PALLAVI SHARMA	YOGENDRA SHARMA	P. Sharma
7	POOJA KUSHWAHA	VIRENDRA KUMAR KUSHWAHA	Pooja
8	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	Priyanka
9	ROHIT MEENA	JAGDISH MEENA	Rohit
10	SRISHTI GAUR	ANIL GAUR	Srishti
11	SANDEEP TYAGI	LAXMI NARAYAN TYAGI	Sandeep
12	RAKESH KUMAR TELI	PRABHU LAL TELI	Rakesh

Neeru.

Internal

Total no. of students Present - 12
Absent - Nil

Total - 12

**UNIVERSITY OF KOTA, KOTA****11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA****80503-M.Sc. CHEMISTRY SEMESTER-III EXAM.-DEC.-2022****8083-ORGANIC SYNTHESIS-(INT)****Batch NO: 36601**

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	192786	RAKESH KUMAR TELI	PRABHU LAL TELI	30	26
2	222591	CHETAN SHARMA	RAKESH CHANDRA SHARMA	30	26
3	222592	MAHEE VIJAY	DINESH VIJAY	30	29
4	222593	MOHIT CHOUHAN	BALRAM CHOUHAN	30	28
5	222594	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	30	28
6	222595	NIKITA SINDHAW	SANJAY SINDHAW	30	30
7	222596	PALLAVI SHARMA	YOGENDRA SHARMA	30	29
8	222597	POOJA KUSHWAHA	VIRENDRA SINGH KUSHWAHA	30	27
9	222598	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	30	30
10	222599	ROHIT MEENA	JAGDISH MEENA	30	26
11	222600	SANDEEP TYAGI	LAXMI NARAYAN	30	28
12	222601	SRISHTI GAUR	ANIL GAUR	30	29

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

13-Apr-2023

Maa Bharti P.G. College Kota

M.Sc II Sem Chemistry (2022-23)

Sub - Heterocyclic Chemistry

Mid Term - I

MM-15

Time 1 hr

Answer the following questions.

Q1. Draw the structure of the following heterocyclic compound (1x5=5)

(a) Oxirane

(b) Aziridine

(c) Oxetane

(d) Piperidine

(e) Pyran

Q2. Explain tautomerism in aromatic heterocycles. (5)

Q3. Explain structural criteria for aromatic heterocycle (2½)

Q4. Explain energetic criteria for aromatic heterocycle. (2½)

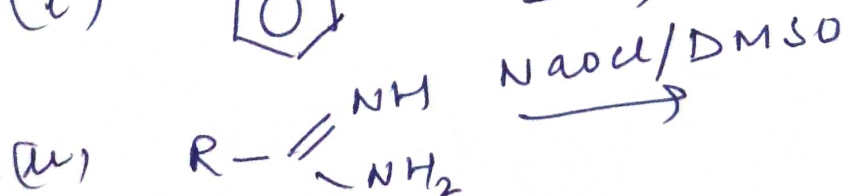
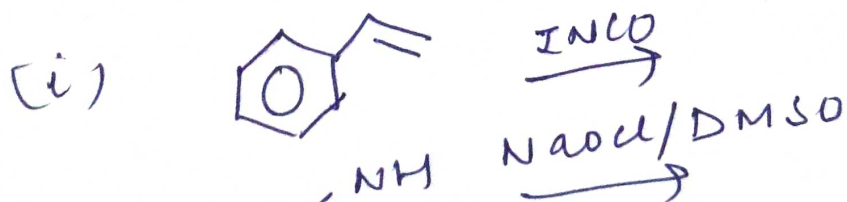
Maa Bharti P.G College Kota
M.Sc II Sem Chemistry (2022-23)
Paper-IV Heterocyclic Chemistry
Mid Term - II

MM - 15

Time 1 hr

Answer the following questions.

- Q1. Explain conformation in five and six membered heterocycles. (5)
- Q2. Explain the bond angle strain and its consequences in small ring heterocycles. (5)
- Q3. How will you synthesize azetidines from γ lactones. (5)
- Q4. Write the product of following chemical reactions. ($2\frac{1}{2} \times 2 = 5$)



- Q5. Explain Hantzsch synthesis for pyridine (5)

SHWETA SAXENA

25.04.2024 10:51

MAA BHARTI PG COLLEGE KOTA

Department Of Chemistry

Mid-Term I

Session-2022-23

Paper *Ex Heterocyclic chemistry*

Semester- *IIIrd*

Date:- *22/11/22*

Attendance sheet

Sr. No	Name Of Students	Father's Name	SIGN
1	CHETAN SHARMA	RAKESH CHANDRA SHARMA	<i>Chetan</i>
2	MAHEE VIJAY	DINESH VIJAY	<i>Mahee Vijay</i>
3	MOHIT CHOUHAN	BALRAM CHOUHAN	<i>Mohit</i>
4	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	<i>Narenara</i>
5	NIKITA SINDHVW	SANJAY SINDHAW	<i>Nikita</i>
6	PALLAVI SHARMA	YOGENDRA SHARMA	<i>P. Sharma</i>
7	POOJA KUSHWAHA	VIRENDRA KUMAR KUSHWAHA	<i>Pooja</i>
8	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	<i>Priyanka</i>
9	ROHIT MEENA	JAGDISH MEENA	<i>Rohit</i>
10	SRISHTI GAUR	ANIL GAUR	<i>Srishti</i>
11	SANDEEP TYAGI	LAXMI NARAYAN TYAGI	<i>Sandeep</i>
12	RAKESH KUMAR TELI	PRABHU LAL TELI	<i>Rakesh</i>

Shanu
Internal

Total no of student Present = 12

Absent = NIL

Total = 12



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

80503-M.Sc. CHEMISTRY SEMESTER-III EXAM.-DEC.-2022

8084-HETEROCYCLIC CHEMISTRY-(INT)

Batch NO: 36602

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	192786	RAKESH KUMAR TELI	PRABHU LAL TELI	30	27
2	222591	CHETAN SHARMA	RAKESH CHANDRA SHARMA	30	28
3	222592	MAHEE VIJAY	DINESH VIJAY	30	29
4	222593	MOHIT CHOUHAN	BALRAM CHOUHAN	30	28
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11	222600	SANDEEP TYAGI	LAXMI NARAYAN	30	26
12	222601	SRISHTI GAUR	ANIL GAUR	30	29

Shanu

Signature of Internal Examiner

Signature of External Examiner

Date of Submission...13/4/23

13-Apr-2023

SHWETA SAXENA

25.04.2024 10:51



Maa Bharti P. G. College, Kota

Mahaveer Nagar III, Sector-8
Kota-324005, Rajasthan
E-mail-mbpgcollege@yahoo.com

NOTICE

Ref. No.:

Date: 12-07-22

All students of M.Sc. Chemistry II and IV Semester are informed that their first midterm exam will commence from 19th July 2022. Students should be regular during mid-term exams. Mid-term exam Time-Table is as follows:

Mid-Term I

M.Sc. Sem. II

Time: 9:00 a.m.

Date	Paper
19 th July 2022	Inorganic Chemistry-I
20 th July 2022	Organic Chemistry-II
21 st July 2022	Physical Chemistry-III
22 nd July 2022	Computer for Chemists-IV

M.Sc. Sem. IV

Time: 9:00 a.m.

Date	Paper
19 th July 2022	Environmental Chemistry-I
20 th July 2022	Modern Techniques of Organic Synthesis-II
21 st July 2022	Chemistry of Natural Products-III
22 nd July 2022	Medicinal Chemistry-IV

B.S.
Department of Chemistry

Head of Department
CHEMISTRY
Maa Bharti P. G. College
Mahaveer Nagar- III, Kota (Raj.)



Shweta Saxena
Principal
मौ भारती स्वातंत्र्य महाविद्यालय
महावीर नगर तृतीय, कोटा

SHWETA SAXENA

25.04.2024 10:51



Maa Bharti P. G. College, Kota

Mahaveer Nagar III, Sector-8

Kota-324005, Rajasthan

E-mail-mbpgcollege@yahoo.com

NOTICE

Ref. No.:

Date: 16th August 2022

All students of M.Sc. Chemistry II and IV Semester are informed that their first midterm exam will commence from 22nd August 2022. Students should be regular during mid-term exams. Mid-term exam Time-Table is as follows:

Mid-Term II

M.Sc. Sem. II

Time: 9:00 a.m.

Date	Paper
22 nd August 2022	Inorganic Chemistry-I
23 rd August 2022	Organic Chemistry-II
24 th August 2022	Physical Chemistry-III
25 th August 2022	Computer for Chemists-IV

M.Sc. Sem. IV

Time: 9:00 a.m.

Date	Paper
22 nd August 2022	Environmental Chemistry-I
23 rd August 2022	Modern Techniques of Organic Synthesis-II
24 th August 2022	Chemistry of Natural Products-III
25 th August 2022	Medicinal Chemistry-IV

B. Shrivastava
Department of Chemistry
Head of Department
CHEMISTRY
Maa Bharti P. G. College
Mahaveer Nagar- III, Kota (Raj.)



Shweta Saxena
Principal
प्राचार्य
मी भारती स्नातकोत्तर महाविद्यालय
महावीर नगर, कोटा

25.04.2024 10:51

MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. II Sem. Chemistry (2021-22)

Mid Term I

Paper I Inorganic Chemistry

Time-1 Hr

MM-15

Answer the following question.

1. Define RS Coupling. (2)
2. Write the GS term symbol for following electronic configuration
 $p^2, d^2, d^5, d^7, d^{10}$. (2)
3. What is Racah Parameter? (2)
4. What is Nephelauxetic Effect? (2)
5. What is Spin Cross Over? (2)
6. Explain Orgel diagram of d^2 ion in Octahedral field. (2)

MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. II Sem. Chemistry (2021-22)

Mid Term I

Paper I Inorganic Chemistry

Time-1 Hr

MM-15

Answer the following question.

1. Define RS Coupling. (2)
2. Write the GS term symbol for following electronic configuration
 $p^2, d^2, d^5, d^7, d^{10}$. (2)
3. What is Racah Parameter? (2)
4. What is Nephelauxetic Effect? (2)
5. What is Spin Cross Over? (2)
6. Explain Orgel diagram of d^2 ion in Octahedral field. (2)

MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. II Sem. Chemistry (2021-22)

Mid Term II

Paper I Inorganic Chemistry

Time-1 Hr

MM-15

Answer the following questions.

1. Describe SN^1 CB mechanism and their evidences. (5)

2. Describe the mechanism of acid hydrolysis reactions with giving suitable examples. (5)

Or

Explain Marcus Hush Theory and its utilisations. (5)

3. Explain the theories of Trans effects. (5)

Or

Explain Outer and Inner sphere mechanism. (5)

MAA BHARTI PG COLLEGE KOTA

Department Of Chemistry

Mid-Term I Session-2021-22

Paper I Inorganic chemistry
Date:- 12/7/22

Semester- 2nd

Attendance sheet

Sr. No	Name Of Students	Father's Name	SIGN
1	CHETAN SHARMA	RAKESH CHANDRA SHARMA	Chetan
2	MAHEE VIJAY	DINESH VIJAY	mahee vijay
3	MOHIT CHOUHAN	BALRAM CHOUHAN	mo hit
4	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	nr gaur
5	NIKITA SINDHVW	SANJAY SINDHAW	Nikita
6	PALLAVI SHARMA	YOGENDRA SHARMA	P-sene
7	POOJA KUSHWAHA	VIRENDRA KUMAR KUSHWAHA	Pooja
8	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	Priyanka
9	ROHIT MEENA	JAGDISH MEENA	rohit
10	SRISHTI GAUR	ANIL GAUR	Shristi
11	SANDEEP TYAGI	LAXMI NARAYAN TYAGI	Sandeep

Shanu
Internal

Total No' of student Present = 11
Absent = NIL

Total = 11



UNIVERSITY OF KOTA, KOTA
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA
80502-M.Sc. CHEMISTRY SEM.-II EXAM - 2021
8071-INORGANIC CHEMISTRY-(INT)

Batch NO: 14805

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	222591	CHETAN SHARMA	RAKESH CHANDRA SHARMA	30	27
2	222592	MAHEE VIJAY	DINESH VIJAY	30	28
3	222593	MOHIT CHOUHAN	BALRAM CHOUHAN	30	27
4	222594	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	30	28
5	222595	NIKITA SINDHAW	SANJAY SINDHAW	30	28
6	222596	PALLAVI SHARMA	YOGENDRA SHARMA	30	29
7	222597	POOJA KUSHWAHA	VIRENDRA SINGH KUSHWAHA	30	27
8	222598	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	30	28
9	222599	ROHIT MEENA	JAGDISH MEENA	30	26
10	222600	SANDEEP TYAGI	LAXMI NARAYAN	30	27

Signature of Internal Examiner

Date of Submission...

Shanu
15/9/22

Signature of External Examiner
DR. NEERU CHOUDHARY

15-Sep-2022

SHWETA SAXENA

25.04.2024 10:51

Wait..



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

80502-M.Sc. CHEMISTRY SEM.-II EXAM - 2022

8071-14805-INORGANIC CHEMISTRY-(INT)

BATCH NO : 14805

SNo.	Unique No.	Main RollNo.	Name	Father's Name	Max.M.	Marks
1	39	222601	SRISHTI GAUR	ANIL GAUR	30	29

Name of Examiner

Signature of Examiner

Internal.....

External.....

Date of Submission.....

17-Sep-2022

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MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. II Sem. Chemistry (2021-22)

Mid Term I

Paper II Organic Chemistry

Time-1 Hr

MM-15

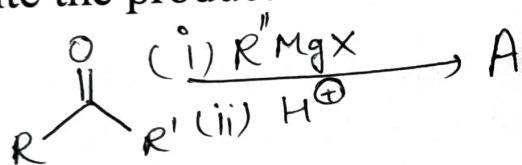
Answer the following questions.

1. What are electrocyclic reactions? (1)

2. Define cycloaddition reaction. (1)

3. Define conrotatory and disrotatory motion. (1)

4. Write the product (1)



5. What is Claisen rearrangement? Explain it by taking suitable examples. (3)

6. Write short note on 1,3 dipolar Cycloaddition. (1.5)

7. Explain the Woodward Correlation diagram of conrotatory cyclisation of 1,3,5 Hexatriene into Cyclohexadiene. (5)

Or

8. Write short note on Ene reaction. (1/2)

MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. II Sem. Chemistry (2021-22)

Mid Term II

Paper II Organic Chemistry

Time-1 Hr

MM-15

Answer the following questions.

1. Explain the Jablonski diagram with all consequences of the absorption of light. (5)

2. Write short notes on

- (i) Energy transfer (5)
- (ii) Dimerization reaction of Alkenes

3. Explain the following reactions with suitable mechanism.

- (i) Paterno- Buchi Reaction (2.5X2=5)
- (ii) Norrish type II Reaction

Or

4. Write short notes on

- (i) Photoreduction (2.5X2=5)
- (ii) Norrish type I Reaction

MAA BHARTI PG COLLEGE KOTA

Department Of Chemistry

Mid-Term I Session-2021-22

Paper II Organic chemistry

Date: 20/7/22

Semester- IInd

Attendance sheet

Sr. No	Name Of Students	Father's Name	SIGN
1	CHETAN SHARMA	RAKESH CHANDRA SHARMA	Chetan
2	MAHEE VIJAY	DINESH VIJAY	Maheesvijs
3	MOHIT CHOUHAN	BALRAM CHOUHAN	Mohit
4	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	Narendra
5	NIKITA SINDHVW	SANJAY SINDHAW	Nikita
6	PALLAVI SHARMA	YOGENDRA SHARMA	Pallavi
7	POOJA KUSHWAHA	VIRENDRA KUMAR KUSHWAHA	Pooja
8	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	Priyanka
9	ROHIT MEENA	JAGDISH MEENA	Rohit
10	SRISHTI GAUR	ANIL GAUR	Srishti
11	SANDEEP TYAGI	LAXMI NARAYAN TYAGI	Sandeep

Total no. of students

Shweta,
Internal

Present - 11

Absent - nil

Total - 11



UNIVERSITY OF KOTA, KOTA
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA
80502-M.Sc. CHEMISTRY SEM.-II EXAM - 2021
8072-ORGANIC CHEMISTRY-(INT)

Batch NO: 14807

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	222591	CHETAN SHARMA	RAKESH CHANDRA SHARMA	30	28
2	222592	MAHEE VIJAY	DINESH VIJAY	30	29
3	222593	MOHIT CHOUHAN	BALRAM CHOUHAN	30	28
4	222594	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	30	29
5	222595	NIKITA SINDHAW	SANJAY SINDHAW	30	29
6	222596	PALLAVI SHARMA	YOGENDRA SHARMA	30	28
7	222597	POOJA KUSHWAHA	VIRENDRA SINGH KUSHWAHA	30	28
8	222598	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	30	27
9	222599	ROHIT MEENA	JAGDISH MEENA	30	27
10	222600	SANDEEP TYAGI	LAXMI NARAYAN	30	26

Signature of Internal Examiner

Date of Submission... 15/9/22

Signature of External Examiner
DR. NEERU CHOUDHARY

15-Sep-2022

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UNIVERSITY OF KOTA, KOTA
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

80502-M.Sc. CHEMISTRY SEM.-II EXAM - 2022
8072-14807-ORGANIC CHEMISTRY-(INT)

BATCH NO : 14807

SNo.	Unique No.	Main RollNo.	Name	Father's Name	Max.M.	Marks
1	39	222601	SRISHTI GAUR	ANIL GAUR	30	28

Name of Examiner

Signature of Examiner

Internal.....

External.....

Date of Submission.....

17-Sep-2022

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MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. II Sem. Chemistry (2021-22)

Mid Term I

Paper III Physical Chemistry

Time-1 Hr

MM-15

Answer the following questions. (Attempt any three)

1. Describe Fugacity, its significance and different methods of its determination. (5)
2. Discuss the activity and activity coefficient of solution. Explain the different methods of determination. (5)
3. Explain the Fermi Dirac statistics and Fermi Dirac energy. (5)
4. Explain partial molar properties and their significance. Also explain the determination of partial molar properties. (5)
5. Explain partition functions- translational, rotational, vibrational and electronic. (5)

MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. II Sem. Chemistry (2021-22)

Mid Term II

Paper III Physical Chemistry

Time-1 Hr

MM-15

Answer the following questions. (Attempt any three)

1. Exchange Current density. (5)
2. Explain the term Overpotential? Discuss different type of Over voltage. (5)
3. Write down Irreversible thermodynamics for biological system. (5)
4. Explain Fugacity, its significance and different methods of its determination. (5)
5. Discuss Activity and Activity coefficient of solution. Explain the different methods of determination of Activity and Activity coefficients. (5)

MAA BHARTI PG COLLEGE KOTA
Department Of Chemistry

Mid-Term I

Session-2021-22

Paper 11

Date:-..... Physical chemistry

Semester- 2nd

Attendance sheet

Sr. No	Name Of Students	Father's Name	SIGN
1	CHETAN SHARMA	RAKESH CHANDRA SHARMA	
2	MAHEE VIJAY	DINESH VIJAY	<u>Chetan</u>
3	MOHIT CHOUHAN	BALRAM CHOUHAN	<u>Mahee vijay</u>
4	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	<u>Mohit</u>
5	NIKITA SINDHVW	SANJAY SINDHAW	<u>Nes 3919d</u>
6	PALLAVI SHARMA	YOGENDRA SHARMA	<u>Nikita</u>
7	POOJA KUSHWAHA	VIRENDRA KUMAR KUSHWAHA	<u>P-sharma</u>
8	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	<u>Pooja</u>
9	ROHIT MEENA	JAGDISH MEENA	<u>Priyanka</u>
10	SRISHTI GAUR	ANIL GAUR	<u>Rohit</u>
11	SANDEEP TYAGI	LAXMI NARAYAN TYAGI	<u>Srishti</u>
			<u>Sandeep</u>

B. Sharma
Internal

Total No of student Present = 11

Absent = Nil

Total = 11



UNIVERSITY OF KOTA, KOTA
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

80502-M.Sc. CHEMISTRY SEM.-II EXAM - 2021
8073-PHYSICAL CHEMISTRY-(INT)

Batch NO: 14809

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	222591	CHETAN SHARMA	RAKESH CHANDRA SHARMA	30	26
2	222592	MAHEE VIJAY	DINESH VIJAY	30	27
3	222593	MOHIT CHOUHAN	BALRAM CHOUHAN	30	28
4	222594	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	30	27
5	222595	NIKITA SINDHAW	SANJAY SINDHAW	30	29
6	222596	PALLAVI SHARMA	YOGENDRA SHARMA	30	29
7	222597	POOJA KUSHWAHA	VIRENDRA SINGH KUSHWAHA	30	28
8	222598	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	30	27
9	222599	ROHIT MEENA	JAGDISH MEENA	30	26
10	222600	SANDEEP TYAGI	LAXMI NARAYAN	30	27


Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner
DR. NEERU CHOUDHARY

15-Sep-2022

SHWETA SAXENA

25.04.2024 10:51

Wait..



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

80502-M.Sc. CHEMISTRY SEM.-II EXAM - 2022
8073-14809-PHYSICAL CHEMISTRY-(INT)

BATCH NO : 14809

SNo.	Unique No.	Main RollNo.	Name	Father's Name	Max.M.	Marks
1	39	222601	SRISHTI GAUR	ANIL GAUR	30	29

Name of Examiner

Basant
Signature of Examiner

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External.....

Date of Submission.....

17-Sep-2022

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MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. II Sem. Chemistry (2021-22)

Mid Term I

Paper IV Computer Application in Chemistry

Time-1 Hr

MM-15

Answer the following questions. (Attempt any three)

1. What is a software? Explain types of software. (5)
2. How to created and save the document in Microsoft word. (5)
3. Write short notes on following
 - (a) Pie chart
 - (b) Spread sheet (2.5X2=5)
4. What is DBMS? Draw the ER diagrams of library management system. (5)
5. Design the OSI model in brief. (5)

MAA BHARTI P.G. COLLEGE, KOTA

M.Sc. II Sem. Chemistry (2021-22)

Mid Term II

Paper IV Computer Application in Chemistry

Time-1 Hr

MM-15

Answer the following question.

1. Answer the following: (1X5=5)

- (a) What is the mean of resonance energy in computational chemistry?
- (b) What is the full form of BIOS?
- (c) What is the full form of JPEG?
- (d) Draw the block diagram of computer system.
- (e) Name any five input devices used in computer system.

2. What is the use of computer programming in chemistry equation? (5)

Or

3. Explain the token in language C. (5)

4. Describe the following (2.5X2=5)

- (a) Radioactive Decay
- (b) Pauling's Reaction

MAA BHARTI PG COLLEGE KOTA

Department Of Chemistry

Mid-Term I

Session-2021-22

Paper IV computer for chemist

Semester- 2nd

Date:- 22/7/22

Attendance sheet

Sr. No	Name Of Students	Father's Name	SIGN
1	CHETAN SHARMA	RAKESH CHANDRA SHARMA	Chetan
2	MAHEE VIJAY	DINESH VIJAY	Mahee vijay
3	MOHIT CHOUHAN	BALRAM CHOUHAN	Mohit
4	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	NR S YADAV
5	NIKITA SINDHVW	SANJAY SINDHAW	Nikita
6	PALLAVI SHARMA	YOGENDRA SHARMA	Pallavi
7	POOJA KUSHWAHA	VIRENDRA KUMAR KUSHWAHA	Pooja
8	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	Priyanka
9	ROHIT MEENA	JAGDISH MEENA	Rohit
10	SRISHTI GAUR	ANIL GAUR	Srishti
11	SANDEEP TYAGI	LAXMI NARAYAN TYAGI	Sandeep

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Internal

Total No of Student Present = 11
Absent = NIL

Total = 11

UNIVERSITY OF KOTA, KOTA**11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA****80502-M.Sc. CHEMISTRY SEM.-II EXAM - 2021**
8074-COMPUTER APPLICATIONS IN CHEMISTRY-(INT)**Batch NO: 14811**

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	222591	CHETAN SHARMA	RAKESH CHANDRA SHARMA	30	27
2	222592	MAHEE VIJAY	DINESH VIJAY	30	29
3	222593	MOHIT CHOUHAN	BALRAM CHOUHAN	30	28
4	222594	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	30	29
5	222595	NIKITA SINDHAW	SANJAY SINDHAW	30	29
6	222596	PALLAVI SHARMA	YOGENDRA SHARMA	30	30
7	222597	POOJA KUSHWAHA	VIRENDRA SINGH KUSHWAHA	30	28
8	222598	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	30	27
9	222599	ROHIT MEENA	JAGDISH MEENA	30	27
10	222600	SANDEEP TYAGI	LAXMI NARAYAN	30	27


Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner
DR. NEERU CHOUDHARY

15-Sep-2022

Wait..

UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

80502-M.Sc. CHEMISTRY SEM.-II EXAM - 2022

8074-14811-COMPUTER APPLICATIONS IN CHEMISTRY-(INT)

BATCH NO : 14811

SNo.	Unique No.	Main RollNo.	Name	Father's Name	Max.M.	Marks
1	39	222601	SRISHTI GAUR	ANIL GAUR	30	28

Name of Examiner *Nidhi Bhargava*

Internal.....*Nidhi*.....

Date of Submission.....

Signature of Examiner

External.....

17-Sep-2022

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Maa Bharti P. G. College Kota
M.Sc IV sem Chemistry [2021-22]
Paper - I Environmental chemistry

Time - 1 hr

Mid Term - I

MM - 15

Q1. Write notes on (any two): $2\frac{1}{2} \times 2 = 5$

- (i) alternative fuel as Bio-diesel
- (ii) Smog formation
- (iii) Acid Rain

Q2. What do you understand by Environmental chemistry? Give comments on the objectives of Environmental chemistry. $2\frac{1}{2} \times 2 = 5$

Or

What are the Primary and secondary air pollutant? Discuss their sources and relative contribution towards air pollution. (5)

Q3. Write note on: ($2\frac{1}{2} \times 2 = 5$)

- (i) Green House effect
- (ii) Global warming

Maa Bharti P.G. College, Kota

M.Sc IV Sem Chemistry [2021-22]

Paper - I Environmental Chemistry

Mid Term - II

Time 1 hr

MH-15

Q1. Write short notes on: ($2\frac{1}{2} \times 2 = 5$)

- (i) Sources of radioactive pollution
- (ii) Analysis of radionuclides.

Q2 Explain $2 \times 5 = 10$

- (A) Radioactive fallout & nuclear accidents
- (B) Control of radioactive pollution

Or

Explain about: ($5 + 5 = 10$)

- (A) nuclear reactor & nuclear accidents
- (B) Effect of radioactive pollution on power plant & its control.

Maa Bharti P.G. College Kota
M.Sc. Chemistry IV Semester (2021-22)
Mid Term I

Paper: Environmental Chemistry - I
Date :- 19/7/22

ATTENDANCE SHEET

S. No.	STUDENT NAME	FATHERS NAME	Signature
1	BHAVANA SINGHAL	HEMRAJ GUPTA	भावना सिंघल
2	DIKSHA NAGAR	YOGESH KUMAR NAGAR	Diksha
3	MANOJ KUMAR MEHTA	KANHAIYA LAL MEHTA	मनोज
4	NIRMLA JAISWAL	MURLIDHAR JAISWAL	Nirmala
5	SHIVANI JAIN	CHANDRA PRAKASH JAIN	Shivani
6	SHIVANI SOLANKI	BALBEER SINGH SOLANKI	Shivani

B. Sharma
(Dr. Bharti Sharma)
Internal

Total NO. of Students Present = 06
Absent = Nil

Total = 06



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

80504-M.Sc. CHEMISTRY SEM.-IV EXAM - 2021
8121-ENVIRONMENTAL CHEMISTRY-(INT)

Batch NO: 14941

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	212931	BHAVANA SINGHAL	HEMRAJ GUPTA	30	29
2	212932	DIKSHA NAGAR	YOGESH KUMAR NAGAR	30	28
3	212935	MANOJ KUMAR MEHTA	KANHAIYA LAL MEHTA	30	29
4	212936	NIRMLA JAISWAL	MURLI DHAR JAISWAL	30	28
5	212938	SHIVANI JAIN	CHANDRA PRAKASH JAIN	30	27
6	212939	SHIVANI SOLANKI	BALBEER SINGH SOLANKI	30	26

Signature of Internal Examiner

Date of Submission.....

Neeru
Signature of External Examiner
DR. NEERU CHOUDHARY

15-Sep-2022

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P. G. college Kota
M.Sc IV sem chemistry 2021-22
Paper - II Recent Methods of
Organic Synthesis

Mid Term - I

Time 1 hr

MM-15

Answer the following questions.

- Q1. Discuss the fundamentals of microwave technology & explain time & energy benefits with suitable examples of MW reactions. (5)
- Q2. Explain the following reactions under microwave conditions: ($2\frac{1}{2} \times 2 = 5$)
- (a) Esterification
 - (b) Diels - Alder Reaction
- Or
- Explain alkylation of reactive methylene compounds by microwave assisted synthesis. (5)
- Q3. Explain microwave dielectric heating. (5)

Maa Bharti P. G. College, Kota

M.Sc. IV Sem Chemistry (2021-22)

Paper II - Recent Methods of Organic Synthesis

Midterm - II

Time - 1 Hr

M.M - 15

Answer the following Questions:

Q.1 Explain the Cavitation process and benefits of using Ultrasound in Organic Synthesis. (5)
Or

Provide electrochemical organic synthesis of following: (2½ × 2 = 5)

- (i) Cathodic Reduction
- (ii) Kolbe Reaction

Q.2 Explain ultrasound assisted Organic synthesis of Kricheldorf-Russel Reaction. (5)

Q.3 State sonochemical effects observed during occurrence of chemical reactions. (5)
Or

Each question carry 1 mark only

- (a) What is transducer?
- (b) Give frequency range of ultrasound for assisting chemical reactions.
- (c) Give an example of cathodic reduction reaction.
- (d) What are bio-catalyst?
- (e) Role of Transducer in sonochemistry.

Maa Bharti P.G. College Kota
M.Sc. Chemistry IV Semester (2021-22)
Mid Term I

Paper: Modern Techniques of Organic Synthesis - II
Date :- 20/7/22

ATTENDANCE SHEET

S. No.	STUDENT NAME	FATHERS NAME	Signature
1	BHAVANA SINGHAL	HEMRAJ GUPTA	भावना सिंघल
2	DIKSHA NAGAR	YOGESH KUMAR NAGAR	Diksha
3	MANOJ KUMAR MEHTA	KANHAIYA LAL MEHTA	मनो ज
4	NIRMLA JAISWAL	MURLIDHAR JAISWAL	Nirmala
5	SHIVANI JAIN	CHANDRA PRAKASH JAIN	Shivani
6	SHIVANI SOLANKI	BALBEER SINGH SOLANKI	Shivani

no. of
Internal

Total NO. of Students Present = 06
Absent = Nil

Total = 06.

**UNIVERSITY OF KOTA, KOTA****11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA****80504-M.Sc. CHEMISTRY SEM.-IV EXAM - 2021
8122-RECENT METHODS OF ORGANIC SYNTHESIS-(INT)****Batch NO: 14943**

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	212931	BHAVANA SINGHAL	HEMRAJ GUPTA	30	27
2	212932	DIKSHA NAGAR	YOGESH KUMAR NAGAR	30	29
3	212935	MANOJ KUMAR MEHTA	KANHAIYA LAL MEHTA	30	28
4	212936	NIRMLA JAISWAL	MURLI DHAR JAISWAL	30	29
5	212938	SHIVANI JAIN	CHANDRA PRAKASH JAIN	30	26
6	212939	SHIVANI SOLANKI	BALBEER SINGH SOLANKI	30	27

Signature of Internal Examiner

*Neeru*Signature of External Examiner
DR. NEERU CHOUDHARY

Date of Submission.....

15-Sep-2022

Maa Bharti P. G. College, Kota
M.Sc B Sem (2020-21)
Paper-III Natural Product
Mid Term-II

Time 1 hr

MM-15

Answer the following questions.

- Q1. Illustrative following facts about the structure of cholesterol. ($2\frac{1}{2} \times 2 = 5$)
- Presence of double bond.
 - Nature and position of side chain.

- Q2. Discuss the following set of reaction with condition and structure of the intermediate products. (5)



OR
Discuss the structure & biological significance of Progesterone. (5)

- Q3. How will you obtain ($2\frac{1}{2} \times 2 = 5$)

- Progesterone from stigmasterol
- Testosterone from cholesterol

Maa Bharti P.G. College Kota

M.Sc IV Sem Mid Term II

(2021-22)

Time 1 hr

Paper - III Natural Products MM 15

Q1. Synthesis of PGE_2 & $\text{PGF}_2\alpha$ (5)

Q2. what are pyrethroids? Write the structure & name of 4 of synthetic pyrethroids (5)

Or

Give the nomenclature, classification of prostaglandins (5)

Q3 (i) Physiological effect of Prostaglandins. (2½)

(ii) Rotenones (2½)

Maa Bharti P.G. College Kota
M.Sc. Chemistry IV Semester (2021-22)
Mid Term I

Paper: Chemistry of Natural Products - III
Date: 21/7/22

ATTENDANCE SHEET

S. No.	STUDENT NAME	FATHERS NAME	Signature
1	BHAVANA SINGHAL	HEMRAJ GUPTA	भावना सिंघल
2	DIKSHA NAGAR	YOGESH KUMAR NAGAR	Diksha
3	MANOJ KUMAR MEHTA	KANHAIYA LAL MEHTA	मनोहर
4	NIRMLA JAISWAL	MURLIDHAR JAISWAL	Nirmala
5	SHIVANI JAIN	CHANDRA PRAKASH JAIN	Shivani
6	SHIVANI SOLANKI	BALBEER SINGH SOLANKI	Shivani

Shaw

Tutorial

Total No of student Present = 06
Absent = NIL
Total = 06

SHWETA SAXENA

25.04.2024 10:51



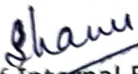
UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

80504-M.Sc. CHEMISTRY SEM.-IV EXAM - 2021
8123-CHEMISTRY OF NATURAL PRODUCTS-(INT)

Batch NO: 14945

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	212931	BHAVANA SINGHAL	HEMRAJ GUPTA	30	28
2	212932	DIKSHA NAGAR	YOGESH KUMAR NAGAR	30	29
3	212935	MANOJ KUMAR MEHTA	KANHAIYA LAL MEHTA	30	29
4	212936	NIRMLA JAISWAL	MURLI DHAR JAISWAL	30	27
5	212938	SHIVANI JAIN	CHANDRA PRAKASH JAIN	30	26
6	212939	SHIVANI SOLANKI	BALBEER SINGH SOLANKI	30	27


Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner
DR. NEERU CHOUDHARY

15-Sep-2022

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Maa Bharti P. G. College, Kota
M.Sc. Chemistry IV Sem (2021-22)
Subject - Medicinal Chemistry (Paper IV)
Mid-Term - I

Time: 1 Hr

M.M. - 15

Q. Answer the following Questions:

Q.1 Write short notes on Prodrug and soft drug?

Q.2 Describe the factors affecting bioactivity.
Or

Q.3 Explain Mustard Drug.

Q.4 What are Oncogenes?
Or

Q.5 Explain Lead compounds and lead
elucidation.

Maa Bharti P.G. College, Rohtak

M.Sc. ~~IV~~ Sem Chemistry

Session - 2021-22

Sub: - Medicinal Chemistry

Mid-term - I

Time 1 hr.

M: 15

Answer the following questions. (Any three)

Q.1. Write note on Quantitative Structure Activity Relationship. (QSAR).

Q.2 Write a note on Chemotherapy?

Q.3 Explain the term enantiomers and diastereomers with suitable examples.

Q.4 Discuss the factors affecting drugs absorption and transport across the membrane.

Maa Bharti P.G. College Kota
M.Sc. Chemistry IV Semester (2021-22)
Mid Term I

Paper: Medicinal Chemistry - IV
Date :- 22/7/22

ATTENDANCE SHEET

S. No.	STUDENT NAME	FATHERS NAME	Signature
1	BHAVANA SINGHAL	HEMRAJ GUPTA	भारती सिंहल
2	DIKSHA NAGAR	YOGESH KUMAR NAGAR	Diksha
3	MANOJ KUMAR MEHTA	KANHAIYA LAL MEHTA	मनोहर
4	NIRMLA JAISWAL	MURLIDHAR JAISWAL	Nirmala
5	SHIVANI JAIN	CHANDRA PRAKASH JAIN	Shivani
6	SHIVANI SOLANKI	BALBEER SINGH SOLANKI	Shivani

B. Shrivastava
(Dr. Bharti Shrivastava)
Internal

Total No. of Student Present = 06
Absent = Nil

Total = 06



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

80504-M.Sc. CHEMISTRY SEM.-IV EXAM - 2021
8124-MEDICINAL CHEMISTRY-(INT)

Batch NO: 14947

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	212931	BHAVANA SINGHAL	HEMRAJ GUPTA	30	29
2	212932	DIKSHA NAGAR	YOGESH KUMAR NAGAR	30	30
3	212935	MANOJ KUMAR MEHTA	KANHAIYA LAL MEHTA	30	29
4	212936	NIRMLA JAISWAL	MURLI DHAR JAISWAL	30	28
5	212938	SHIVANI JAIN	CHANDRA PRAKASH JAIN	30	27
6	212939	SHIVANI SOLANKI	BALBEER SINGH SOLANKI	30	26

B. Sharma

Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner
DR. NEERU CHOUDHARY

15-Sep-2022

SHWETA SAXENA

25.04.2024 10:51



Maa Bharti P. G. College, Kota

Mahaveer Nagar III, Sector-8

Kota-324005, Rajasthan

E-mail-mbpgcollege@yahoo.com

NOTICE

Ref. No.:

Date: 15/05/2023

All students of M.Sc. Chemistry II and IV Semester are informed that their first midterm exam will commence from 20th May 2023. Students should be regular during mid-term exams. Mid-term exam Time-Table is as follows:

Mid-Term I

M.Sc. Sem. II

Time: 9:00 a.m.

Date	Paper
20 th May 2023	Inorganic Chemistry-I
23 rd May 2023	Organic Chemistry-II
24 th May 2023	Physical Chemistry-III
25 th May 2023	Computer for Chemists-IV

M.Sc. Sem. IV

Time: 9:00 a.m.

Date	Paper
20 th May 2023	Environmental Chemistry-I
23 rd May 2023	Modern Techniques of Organic Synthesis-II
24 th May 2023	Chemistry of Natural Products-III
25 th May 2023	Medicinal Chemistry-IV

B. Shau
Department of Chemistry
Head of Department
CHEMISTRY
Maa Bharti P. G. College
Mahaveer Nagar- III, Kota (Raj.)



Shweta Saxena
Principal
प्राचार्य
मौ भारती स्नातकोत्तर महाविद्यालय
महावीर नगर तृतीय, कोटा

SHWETA SAXENA

25.04.2024 10:51



Maa Bharti P. G. College, Kota

Mahaveer Nagar III, Sector-8
Kota-324005, Rajasthan
E-mail-mbpgcollege@yahoo.com

NOTICE

Date: 28th June 2023

Ref. No.:

All students of M.Sc. Chemistry II and IV Semester are informed that their first midterm exam will commence from 5th July 2023. Students should be regular during mid-term exams. Mid-term exam Time-Table is as follows:

Mid-Term II

M.Sc. Sem. II

Time: 9:00 a.m.

Date	Paper
5 th July 2023	Inorganic Chemistry-I
6 th July 2023	Organic Chemistry-II
7 th July 2023	Physical Chemistry-III
8 th July 2023	Computer for Chemists-IV

M.Sc. Sem. IV

Time: 9:00 a.m.

Date	Paper
5 th July 2023	Environmental Chemistry-I
6 th July 2023	Modern Techniques of Organic Synthesis-II
7 th July 2023	Chemistry of Natural Products-III
8 th July 2023	Medicinal Chemistry-IV

B. Sharm
Department of Chemistry

Head of Department
CHEMISTRY
Maa Bharti P. G. College
Mahaveer Nagar-III, Kota (Raj.)



Shweta Saxena
Principal
प्राचार्य

मौ भारती स्नातकोत्तर महाविद्यालय
महावीर नगर तृतीय, कोटा

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Maa Bharti P.G. College Kolar

M.Sc II Sem Chemistry - 2023

Mid Term - I

Paper-I Inorganic Chemistry

Date 23/5/23

MM-15 marks

Time 1 hr

Answer the following Questions

Q1. Define RS coupling. (2)

Q2. Write G.S term symbol for following electronic configuration. (2)

$p^2, d^2, d^5, d^7, d^{10}$.

Q3. What is Racah Parameter. (2)

Q4. What is nephelauxetic effect. (2)

Q5. What is spin cross over. (2)

Q6. Explain ~~the~~ Orgel diagram of d^2 ion. (2½)

in octahedral field.

Q7. Explain correlation diagram of d^2 ion in octahedral field. (2½)

Maa Bharti P.G. College Kota

M.Sc II Sem Chemistry

Mid Term - II (2022-23)

Paper - I Inorganic chemistry MM-15

Time 1 hr

- Q1. Discuss S_N1 & S_N2 mechanism and their evidences. (5)
- Q2. Discuss the mechanism of acid hydrolysis reactions with giving suitable examples. (5)

Or

Explain Marcus hush theory and its utilisation.

- Q3. Explain the theories of trans effect.

Or

Explain outer & inner sphere mechanism.

**UNIVERSITY OF KOTA, KOTA****11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA****12002-MSC. CHEMISTRY II-SEMESTER EXAM.-JUNE 2023****12011-INORGANIC CHEMISTRY-(INT)****BATCH NO : 49767****MAX MARKS : 30**

Sr.No.	Roll No.	Name	Father's Name	Category	Signature of Candidate
1	237621	ADITI ACHARYA	BALMUKUND ACHARYA	REGULAR	अदिति आचार्य
2	237622	BENIRAM MEHTA	RAMAVTAR	REGULAR	Beniram
3	237623	DEELIP MEENA	RAMCHHRAN MEENA	REGULAR	दिलीप मीना
4	237624	DEEPAK BANJARA	PREMCHAND BANJARA	REGULAR	दीपक बज्जारा
5	237625	DUSHYANT KUMAR MEENA	TULSI RAM MEENA	REGULAR	dushyant
6	237626	GUNJAN NAMA	RAJU NAMA	REGULAR	gunjan Nama
7	237627	HARISH RATHOR	MOHAN RATHOR	REGULAR	Harish
8	237628	KANIKA PRAJAPATI	PRADEEP KUMAR PRAJAPATI	REGULAR	Kanika Prajapati
9	237629	KULDEEP NAGAR	BHAGWAN LAL NAGAR	REGULAR	कुलदीप नगर
10	237630	MANISH KUMAR GOCHER	RADHESHYAM GOCHER	REGULAR	Manish
11	237631	NITESH VAISHNAV	RADHESHYAM VAISHNAV	REGULAR	Nitesh
12	237632	RATIK SHARMA	MAHENDRA SHARMA	REGULAR	रतिक शर्मा
13	237633	RUCHI SHARMA	SUDARSHAN SHARMA	REGULAR	Ruchi Sharma
14	237634	SURBHI TAILOR	LALIT TAILOR	REGULAR	सुरभि टेलर

Shanu
Internal

External

No. of student Present = 14
No. of student Absent = NIL

total No of student = 14

SHWETA SAXENA

25.04.2024 10:51

**UNIVERSITY OF KOTA, KOTA****11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA****12002-MSC. CHEMISTRY II-SEMESTER EXAM.-JUNE 2023**
12011-INORGANIC CHEMISTRY-(INT)**Batch NO: 49767**

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	237621	ADITI ACHARYA	BALMUKUND ACHARYA	30	29
2	237622	BENIRAM MEHTA	RAMAVTAR	30	28
3	237623	DEELIP MEENA	RAMCHHAN MEENA	30	27
4	237624	DEEPAK BANJARA	PREMCHAND BANJARA	30	26
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10	237630	MANISH KUMAR GOCHER	RADHESHYAM GOCHER	30	26
11	237631	NITESH VAISHNAV	RADHESHYAM VAISHNAV	30	25
12	237632	RATIK SHARMA	MAHENDRA SHARMA	30	28
13	237633	RUCHI SHARMA	SUDARSHAN SHARMA	30	29
14	237634	SURBHI TAILOR	LALIT TAILOR	30	28

Shanu
Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

17-Aug-2023

Maa Bharti P. G. College, Kota

M.Sc II Sem Chemistry (2022-23)

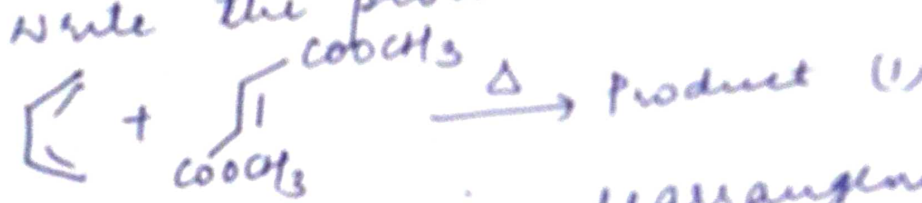
Paper II Organic Chemistry

MM-15

Time 1hr

Midterm - I

Answer the following Questions.

- Q1. what are electrocyclic reactions? (1)
- Q2. Define cycloaddition reactions? (1)
- Q3. Define conrotatory and disrotatory motion (1)
- Q4. Write the product (1)
- 
- Q5. what is claisen rearrangement? Explain it by taking suitable example. (3)
- Q6. Write short note on 1,3 dipolar cycloaddition (1 1/2)
- Q7. Explain the Woodward correlation diagram of conrotatory cyclization of 1,3,5 Hexatriene into cyclohexadiene. (5)
- OR
- Q8. Explain Woodward correlation diagram of (4+2) cycloaddition reaction (5)
- Write short on ene reaction (1/2)

Maa Bharti P.G. College Kota
M.Sc II Sem Chemistry (2022-23)
Paper - II Organic Chemistry
Mid Term - II

Time 1hr

MM-15

Answer the following questions.

Q1. Explain the Jablonskii diagram with all consequences of the absorption of light. (5)

Q2. Write short notes on $(2\frac{1}{2} \times 2 = 5)$

(i) Energy transfer)

(ii) Dimerization reaction of Alkene.

Q3. Explain the following reactions with suitable mechanism. $(2\frac{1}{2} \times 2 = 5)$

(A) Paterno - Buchi Reaction

(B) Norrish type II Reaction

Or

Write short notes on : $(2\frac{1}{2} \times 2 = 5)$

(A) Photoreduction

(B) Norrish type I Reaction

**UNIVERSITY OF KOTA, KOTA****11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA****12002-MSC. CHEMISTRY II-SEMESTER EXAM.-JUNE 2023****12012-ORGANIC CHEMISTRY-(INT)****BATCH NO : 49768****MAX MARKS : 30**

Sr.No.	Roll No.	Name	Father's Name	Category	Signature of Candidate
1	237621	ADITI ACHARYA	BALMUKUND ACHARYA	REGULAR	अदिति आचार्य
2	237622	BENIRAM MEHTA	RAMAVTAR	REGULAR	Beniran
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7	237627	HARISH RATHOR	MOHAN RATHOR	REGULAR	Harish
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9	237629	KULDEEP NAGAR	BHAGWAN LAL NAGAR	REGULAR	कुलदीप नगर
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13	237633	RUCHI SHARMA	SUDARSHAN SHARMA	REGULAR	Ruchi Sharma
14	237634	SURBHI TAILOR	LALIT TAILOR	REGULAR	सुरभि तेलर

Neeraj
Internal

Total No' of student Present = 14
Absent = NIL

Total No' of student = 14

SHWETA SAXENA

25.04.2024 10:51

**UNIVERSITY OF KOTA, KOTA****11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA****12002-MSC. CHEMISTRY II-SEMESTER EXAM.-JUNE 2023**
12012-ORGANIC CHEMISTRY-(INT)**Batch NO: 49768**

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	237621	ADITI ACHARYA	BALMUKUND ACHARYA	30	29
2	237622	BENIRAM MEHTA	RAMAVTAR	30	27
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13	237633	RUCHI SHARMA	SUDARSHAN SHARMA	30	28
14	237634	SURBHI TAILOR	LALIT TAILOR	30	29

Signature of Internal Examiner

Date of Submission: 18.08.23

Signature of External Examiner

17-Aug-2023

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P.G. College, Kota

M.Sc II sem Chemistry (2021-22)

Mid term-I

Paper - III Physical Chemistry

Attempt any three Questions

M.M - 15

- Q.1 Describe fugacity, its significance and different methods of its determination.
- Q.2 Discuss activity and activity coefficient of solution. Explain the different methods of determination.
- Q.3 Explain the fermi-dirac ~~statistics~~ statistics & fermi-dirac energy.
- Q.4 Explain partial molar properties & their significance. Also explain the determination of partial molar properties.
- Q.5 Explain partition functions - translational, rotational, vibrational and electronic.

Maa Bharti P.G. College, Kota
Mid-Term II (2022-23)

M.Sc II Sem Chemistry
Paper - III Physical Chemistry

Attempt any three questions

M.M. 15

Q.1 Exchange current density.

Q.2 Explain the term overpotential?
Discuss different type of overvoltage

Q.3 Write down Irreversible thermodynamics for biological system.

Q.4 Explain fugacity, its significance and different methods of its determination.

Q.5 Discuss Activity and Activity coefficients of solution. Explain the different methods of determination of activity and activity coefficients.

**UNIVERSITY OF KOTA, KOTA****11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA****12002-MSC. CHEMISTRY II-SEMESTER EXAM.-JUNE 2023****12013-PHYSICAL CHEMISTRY-(INT)****BATCH NO : 49769****MAX MARKS : 30**

Sr.No.	Roll No.	Name	Father's Name	Category	Signature of Candidate
1	237621	ADITI ACHARYA	BALMUKUND ACHARYA	REGULAR	अदिति आचार्य
2	237622	BENIRAM MEHTA	RAMAVTAR	REGULAR	Beniram
3	237623	DEELIP MEENA	RAMCHRAN MEENA	REGULAR	दिलीप मीना
4	237624	DEEPAK BANJARA	PREMCHAND BANJARA	REGULAR	दीपक बनजारा
5	237625	DUSHYANT KUMAR MEENA	TULSI RAM MEENA	REGULAR	dushyant
6	237626	GUNJAN NAMA	RAJU NAMA	REGULAR	gunjan Nama
7	237627	HARISH RATHOR	MOHAN RATHOR	REGULAR	Harish
8	237628	KANIKA PRAJAPATI	PRADEEP KUMAR PRAJAPATI	REGULAR	Kanika Prajapati
9	237629	KULDEEP NAGAR	BHAGWAN LAL NAGAR	REGULAR	कुलदीप नागर
10	237630	MANISH KUMAR GOCHER	RADHESHYAM GOCHER	REGULAR	Manish
11	237631	NITESH VAISHNAV	RADHESHYAM VAISHNAV	REGULAR	nitesh
12	237632	RATIK SHARMA	MAHENDRA SHARMA	REGULAR	रतिक शर्मा
13	237633	RUCHI SHARMA	SUDARSHAN SHARMA	REGULAR	Ruchi Sharma
14	237634	SURBHI TAILOR	LALIT TAILOR	REGULAR	सुरभि तेलर

BSK
Internal

Total No of student Present = 14
Absent = NIL

Total = 14

SHWETA SAXENA

25.04.2024 10:51



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

12002-MSC. CHEMISTRY II-SEMESTER EXAM.-JUNE 2023

12013-PHYSICAL CHEMISTRY-(INT)

Batch NO: 49769

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	237621	ADITI ACHARYA	BALMUKUND ACHARYA	30	30
2	237622	BENIRAM MEHTA	RAMAVTAR	30	26
3	237623	DEELIP MEENA	RAMCHHRAN MEENA	30	26
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10	237630	MANISH KUMAR GOCHER	RADHESHYAM GOCHER	30	27
11	237631	NITESH VAISHNAV	RADHESHYAM VAISHNAV	30	27
12	237632	RATIK SHARMA	MAHENDRA SHARMA	30	28
13	237633	RUCHI SHARMA	SUDARSHAN SHARMA	30	29
14	237634	SURBHI TAILOR	LALIT TAILOR	30	30

B. S. K.
Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

17-Aug-2023

Maa Bharti P.G. College Kota

M.Sc II Sem

Paper - IV (Computer Application)
2022-23

Mid Term - I in Chemistry

MM - 15

Time: 1 hr

Attempt any three questions

Q1. what is the software & explain types of software. (5)

Q2. How to create and save the document in microsoft word. (5)

Q3. Write short notes on following
($2\frac{1}{2} \times 2 = 5$)

(A) PIE chart

(B) spread sheet.

Q4. What is DBMS? Draw the ER diagram of library management system. (5)

Q5. Design the OSI model in brief (5)

Maa Bharti P. G. College Kota
M.Sc II Sem Chemistry (2022-23)
Paper - IV Computer Application
in Chemistry

Time 1 hr

MM-15

Q1. Each Question carries 1 mark. (1x5=5)

- (A) What is the mean of resonance energy in computational chemistry.
- (B) What is the full form of BIOS.
- (C) What is the full form of JPEG.
- (D) Draw the block diagram of computer system.
- (E) Name any five input devices used in computer system.

Q2. What is the use of computer programming in chemistry equation. (5)

Or

~~Design the OSI model in brief.~~
Explain the token in language C.

Q3

Describe the following $2\frac{1}{2} \times 2 = (5)$

- (A) Radioactive Decay
- (B) Pauling's Reaction

UNIVERSITY OF KOTA, KOTA					
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA					
12002-MSC. CHEMISTRY II-SEMESTER EXAM.-JUNE 2023					
12014-COMPUTER APPLICATIONS IN CHEMISTRY-(INT)				BATCH NO : 49770	MAX MARKS : 30
Sr.No.	Roll No.	Name	Father's Name	Category	Signature of Candidate
1	237621	ADITI ACHARYA	BALMUKUND ACHARYA	REGULAR	अदिति आचर्य
2	237622	BENIRAM MEHTA	RAMAVTAR	REGULAR	Beniram
3	237623	DEELIP MEENA	RAMCHHRAN MEENA	REGULAR	दिलीप मीना
4	237624	DEEPAK BANJARA	PREMCHAND BANJARA	REGULAR	दीपक बनजारा
5	237625	DUSHYANT KUMAR MEENA	TULSI RAM MEENA	REGULAR	Dushyant
6	237626	GUNJAN NAMA	RAJU NAMA	REGULAR	Gunjan Nama
7	237627	HARISH RATHOR	MOHAN RATHOR	REGULAR	Harish
8	237628	KANIKA PRAJAPATI	PRADEEP KUMAR PRAJAPATI	REGULAR	Kanika Prajapati
9	237629	KULDEEP NAGAR	BHAGWAN LAL NAGAR	REGULAR	Kuldeep Nagar
10	237630	MANISH KUMAR GOCHER	RADHESHYAM GOCHER	REGULAR	Manish
11	237631	NITESH VAISHNAV	RADHESHYAM VAISHNAV	REGULAR	Nitesh
12	237632	RATIK SHARMA	MAHENDRA SHARMA	REGULAR	रतिक शर्मा
13	237633	RUCHI SHARMA	SUDARSHAN SHARMA	REGULAR	Ruchi Sharma
14	237634	SURBHI TAILOR	LALIT TAILOR	REGULAR	सुरभि तेलर

Nidhi
Internal

Total No of student Present = 14
Absent = NIL
Total = 14

**UNIVERSITY OF KOTA, KOTA****11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA****12002-MSC. CHEMISTRY II-SEMESTER EXAM.-JUNE 2023
12014-COMPUTER APPLICATIONS IN CHEMISTRY-(INT)****Batch NO: 49770**

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	237621	ADITI ACHARYA	BALMUKUND ACHARYA	30	30
2	237622	BENIRAM MEHTA	RAMAVTAR	30	27
3	237623	DEELIP MEENA	RAMCHRAN MEENA	30	26
4	237624	DEEPAK BANJARA	PREMCHAND BANJARA	30	27
5	237625	DUSHYANT KUMAR MEENA	TULSI RAM MEENA	30	29
6	237626	GUNJAN NAMA	RAJU NAMA	30	29
7	237627	HARISH RATHOR	MOHAN RATHOR	30	29
8	237628	KANIKA PRAJAPATI	PRADEEP KUMAR PRAJAPATI	30	28
9	237629	KULDEEP NAGAR	BHAGWAN LAL NAGAR	30	27
10	237630	MANISH KUMAR GOCHER	RADHESHYAM GOCHER	30	25
11	237631	NITESH VAISHNAV	RADHESHYAM VAISHNAV	30	26
12	237632	RATIK SHARMA	MAHENDRA SHARMA	30	28
13	237633	RUCHI SHARMA	SUDARSHAN SHARMA	30	29
14	237634	SURBHI TAILOR	LALIT TAILOR	30	30

Nidhi
Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

17-Aug-2023

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P.G. College
Kota

Department of Chemistry (2022-23)

M.Sc IV Sem Chemistry Mid Term - II

Time 1 hr

Paper - I (Environmental Chemistry) MM - 15

Answer the following questions.

Q1. Write short notes on following
($2\frac{1}{2} \times 2 = 5$)

(1) Type of soil

(2) control of soil pollution

Q2. What are different layers of soil? How can it be made more fertile using environment friendly technologies. (5)

Or

Discuss sources of soil pollution. (5)

Q3. Write short notes on following. $2\frac{1}{2} \times 2 = (5)$

(1) composting

(2) incineration

Maa Bharti P.G. College Kota
M.Sc II Sem. Chemistry (2022-23)
Paper - I Environmental Chemistry
Medium - II

Time - 1 hr

MM-15

Answer the following questions.

- Q1. What are the functions of the Central Pollution Control Board. What are the aims and objectives of Water act. (5)
- Q2. What are the water pollutants? How are they classified? Explain sources of water pollution. (5)

Or

How are BOD & COD analysed from water sample? (5)

- Q3. (i) Define hardness of water (1)
(ii) What are the standards of drinking water? (1)
(iii) What is silt? (1)
(iv) What is runoff? (1)
(v) Explain the term sampling. (1)

UNIVERSITY OF KOTA, KOTA					
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA					
80504-M.Sc. CHEMISTRY SEMESTER-IV EXAM.-JUNE 2023					
8121-ENVIRONMENTAL CHEMISTRY-(INT)			BATCH NO : 50727		MAX MARKS : 30
Sr.No.	Roll No.	Name	Father's Name	Category	Signature of Candidate
1	222592	MAHEE VIJAY	DINESH VIJAY	REGULAR	Mahee
2	222593	MOHIT CHOUHAN	BALRAM CHOUHAN	REGULAR	Mohit
3	222595	NIKITA SINDHAW	SANJAY SINDHAW	REGULAR	Nikita Sindhaw
4	222596	PALLAVI SHARMA	YOGENDRA SHARMA	REGULAR	P. sharma
5	222599	ROHIT MEENA	JAGDISH MEENA	REGULAR	Rohit
6	222601	SRISHTI GAUR	ANIL GAUR	REGULAR	Srishti
7	222591	CHETAN SHARMA	RAKESH CHANDRA SHARMA	EX-STUDENT	Chetan
8	222594	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	EX-STUDENT	Narendra Prajapat
9	222597	POOJA KUSHWAHA	VIRENDRA SINGH KUSHWAHA	EX-STUDENT	Pooja
10	222598	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	EX-STUDENT	Priyanka

B. S. Sharma
Internal

Total No' of student Present = 10
Absent = nil
Total = 10

11/08/2023, 11:49

<https://www.univexam.info/Uok/ExaminerPanel/printpractical.php>



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

80504-M.Sc. CHEMISTRY SEMESTER-IV EXAM.-JUNE 2023
8121-ENVIRONMENTAL CHEMISTRY-(INT)

Batch NO: 50727

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	222591	CHETAN SHARMA	RAKESH CHANDRA SHARMA	30	26
2	222592	MAHEE VIJAY	DINESH VIJAY	30	30
3	222593	MOHIT CHOUHAN	BALRAM CHOUHAN	30	29
4	222594	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	30	28
5	222595	NIKITA SINDHAW	SANJAY SINDHAW	30	28
6	222596	PALLAVI SHARMA	YOGENDRA SHARMA	30	30
7	222597	POOJA KUSHWAHA	VIRENDRA SINGH KUSHWAHA	30	28
8	222598	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	30	28
9	222599	ROHIT MEENA	JAGDISH MEENA	30	27
10	222601	SRISHTI GAUR	ANIL GAUR	30	30


Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

17-Aug-2023

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P.G. College, Kota

M.Sc IV Sem Chemistry (2022-23)

Paper-II Recent methods of organic synthesis

Mid Term-I

MM-15

Time 1 hr

Answer the following questions.

- Q1. (i) Give two examples of solid acid Catalysts. (1)
- (ii) Draw the phase diagram of supercritical fluids. (1)
- (iii) What are bio-catalysts. (1)
- (iv) Define Biphasic system and give an example. (1)
- (v) What is supercritical liquid. (1)

Q2 Write the twelve principles of Green chemistry. (5)

Or

Explain phase transfer catalysis. (5)

Q3 Discuss the fundamentals of microwave technology. (5)

Maa Bharti P. G. College, Kota

M.Sc IV Sem Chemistry (2022-23)

Paper II Recent methods in organic synthesis.

Mid Term-II

MM-15

Time 1 hr

Answer the following questions.

Q1. Describe the important features selected during chemical reactor design giving a suitable example. (5)

Q2. Differentiate between laboratory scale and pilot scale organic synthesis & justify your views with an example. (5)

Or

Write a short notes on mass & energy transfer. (5)

Q3. Explain the basic concept of reactors with reference to batch reactors. (5)

Or

Describe properties of chiral ionic liquids. (5)



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

80504-M.Sc. CHEMISTRY SEMESTER-IV EXAM.-JUNE 2023

8122-RECENT METHODS OF ORGANIC SYNTHESIS-(INT)

BATCH NO : 50728

MAX MARKS : 30

Sr.No.	Roll No.	Name	Father's Name	Category	Signature of Candidate
1	222592	MAHEE VIJAY	DINESH VIJAY	REGULAR	Mahee
2	222593	MOHIT CHOUHAN	BALRAM CHOUHAN	REGULAR	Mohit
3	222595	NIKITA SINDHAW	SANJAY SINDHAW	REGULAR	Nikita Sindhawa
4	222596	PALLAVI SHARMA	YOGENDRA SHARMA	REGULAR	P. Sharma
5	222599	ROHIT MEENA	JAGDISH MEENA	REGULAR	Rohit
6	222601	SRISHTI GAUR	ANIL GAUR	REGULAR	Srishti
7	222591	CHETAN SHARMA	RAKESH CHANDRA SHARMA	EX-STUDENT	Chetan
8	222594	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	EX-STUDENT	Narendra Prajapat
9	222597	POOJA KUSHWAHA	VIRENDRA SINGH KUSHWAHA	EX-STUDENT	Pooja
10	222598	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	EX-STUDENT	Priyanka

Neeraj .
Internal

Total No of student Present = 10
Absent = Nil
Total = 10

AM



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

80504-M.Sc. CHEMISTRY SEMESTER-IV EXAM.-JUNE 2023
8122-RECENT METHODS OF ORGANIC SYNTHESIS-(INT)

Batch NO: 50728

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	222591	CHETAN SHARMA	RAKESH CHANDRA SHARMA	30	26
2	222592	MAHEE VIJAY	DINESH VIJAY	30	29
3	222593	MOHIT CHOUHAN	BALRAM CHOUHAN	30	28
4	222594	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	30	29
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7	222597	POOJA KUSHWAHA	VIRENDRA SINGH KUSHWAHA	30	27
8	222598	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	30	28
9	222599	ROHIT MEENA	JAGDISH MEENA	30	26
10	222601	SRISHTI GAUR	ANIL GAUR	30	29

Neeru
Signature of Internal Examiner

Neeru
Signature of External Examiner

Date of Submission *18.08.23*

17-Aug-2023

Maa Bharti P. G. College, Kota
M.Sc IV sem Chemistry (2022-23)
Paper - III Chemistry of Natural
Products

Mid Term - I

MM-15

Time 1 hr

Answer the following questions

Q1. Give sequence of reactions used to elucidate the structure of α -terpineol. (5)

Or

Discuss methods of structure determination of Farnesol along with synthesis (5)

Q2. What is isoprene rule? Discuss stereochemistry and synthesis of the following: (10)

- (i) β -carotene
- (ii) Zingiberene

Or

Explain the following (10)

- (A) Presence of two double bonds in citral.
- (B) Give one synthesis of citral.

Maa Bharti P. G. College, Kota

M.Sc IV Sem Chemistry (2022-23)

Paper II Recent methods in organic synthesis.

Mid Term-II

MM-15

Time 1 hr

Answer the following questions.

Q1. Describe the important features selected during chemical reactor design giving a suitable example. (5)

Q2. Differentiate between laboratory scale and pilot scale organic synthesis & justify your views with an example. (5)

Or

Write a short notes on mass & energy transfer. (5)

Q3. Explain the basic concept of reactions with reference to batch reactors. (5)

Or

Describe properties of chiral ionic liquids. (5)

MAA BHARTI PG COLLEGE KOTA
Department Of Chemistry

Mid- Term Examination

Paper III Natural Product

Semester- IV

Date:-...6/7/23..

Attendance sheet

Sr. No	Name Of Students	Father's Name	SIGN
1	CHETAN SHARMA	RAKESH CHANDRA SHARMA	chetan
2	MAHEE VIJAY	DINESH VIJAY	mahee
3	MOHIT CHOUHAN	BALRAM CHOUHAN	mohit
4	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	Narendra Prajapat
5	NIKITA SINDHVW	SANJAY SINDHAW	Nikita Sindhan
6	PALLAVI SHARMA	YOGENDRA SHARMA	P. Shaena
7	POOJA KUSHWAHA	VIRENDRA KUMAR KUSHWAHA	Pooja
8	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	Priyanka
9	ROHIT MEENA	JAGDISH MEENA	Rohit
10	SRISHTI GAUR	ANIL GAUR	Srishti

Shanu

Total No of student Present = 10 ^{Internal}
Absent = Nil

Total = 10

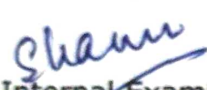
UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

80504-M.Sc. CHEMISTRY SEMESTER-IV EXAM.-JUNE 2023
8123-CHEMISTRY OF NATURAL PRODUCTS-(INT)

Batch NO: 50729

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	222591	CHETAN SHARMA	RAKESH CHANDRA SHARMA	30	27
2	222592	MAHEE VIJAY	DINESH VIJAY	30	30
3	222593	MOHIT CHOUHAN	BALRAM CHOUHAN	30	28
4	222594	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	30	29
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6	222596	PALLAVI SHARMA	YOGENDRA SHARMA	30	29
7	222597	POOJA KUSHWAHA	VIRENDRA SINGH KUSHWAHA	30	27
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9	222599	ROHIT MEENA	JAGDISH MEENA	30	28
10	222601	SRISHTI GAUR	ANIL GAUR	30	30


Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

17-Aug-2023

MBPG College, Kolar

M.Sc. IV sem Chemistry

Sub: - Medicinal Chemistry

Med-ter-I (2022-2023)

Time: 1 hr.

M.M: 15

Answer the following

Q.1 Define the term Drug. Explain drug design development.

Q.2 Write note on pro-drug and soft drug.
or

Explain the theories of drug activity.

Q.3 What are cancer chemotherapy?
or

Q.4 What is cancer? What is action of anti-cancer drug?

Maa Bharti P.G. College, Kolar

M.Sc. IV Sem Chemistry

Session :- 2022-23

Subject :- Medicinal Chemistry

Mid-term - I

Time 1 hr

M.M: 15

Answer the following questions (Any three).

Q.1 Explain Drug toxicity and effects of drug overdose.

Q.2 Explain Enzyme inhibition in detail.

Q.3 Give the Synthesis of Losartan.

Q.4 Discuss the Significance of drug toxicity

Q.5. Mechanism of action of antiviral drug.

UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

80504-M.Sc. CHEMISTRY SEMESTER-IV EXAM.-JUNE 2023

8124-MEDICINAL CHEMISTRY-(INT)				BATCH NO : 50730	MAX MARKS : 30
Sr.No.	Roll No.	Name	Father's Name	Category	Signature of Candidate
1	222592	MAHEE VIJAY	DINESH VIJAY	REGULAR	mahee
2	222593	MOHIT CHOUHAN	BALRAM CHOUHAN	REGULAR	Mohit
3	222595	NIKITA SINDHAW	SANJAY SINDHAW	REGULAR	Nikita Sindhawa
4	222596	PALLAVI SHARMA	YOGENDRA SHARMA	REGULAR	P. Sharma
5	222599	ROHIT MEENA	JAGDISH MEENA	REGULAR	Rohit
6	222601	SRISHTI GAUR	ANIL GAUR	REGULAR	Srishti
7	222591	CHETAN SHARMA	RAKESH CHANDRA SHARMA	EX-STUDENT	Chetan
8	222594	NARENDRA PRAJAPAT	HUKUM PRAJAPAT	EX-STUDENT	Hukum Prajapat
9	222597	POOJA KUSHWAHA	VIRENDRA SINGH KUSHWAHA	EX-STUDENT	Pooja
10	222598	PRIYANKA NAINIWAL	ASHOK KUMAR NAINIWAL	EX-STUDENT	Priyanka

B. Sharm
Internal

Total No' of student Present = 10
Absent = Nil
Total = 10

UNIVERSITY OF KOTA, KOTA

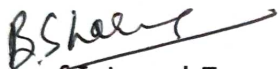
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

80504-M.Sc. CHEMISTRY SEMESTER-IV EXAM.-JUNE 2023

8124-MEDICINAL CHEMISTRY-(INT)

Batch NO: 50730

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	222591	CHETAN SHARMA	RAKESH CHANDRA SHARMA	30	26
2	222592	MAHEE VIJAY	DINESH VIJAY	30	29
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9	222599	ROHIT MEENA	JAGDISH MEENA	30	28
10	222601	SRISHTI GAUR	ANIL GAUR	30	29


Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

17-Aug-2023

SHWETA SAXENA

25.04.2024 10:51



कार्यालय प्राचार्य, माँ भारती पी.जी. कॉलेज, कोटा

महावीर नगर तृतीय सर्किल सेक्टर-8,

कोटा-324005 राजस्थान

ई-मेल-mbpgcollege@yahoo.com

NOTICE

Physics Department

Date-02-04-2022

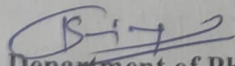
All the Students of M.Sc. (Session 2021-22) are here by informed that the **Mid Term I** will be held from 04-04-22 To 7-4-22 at **10 AM**. Time table along with unit allotted are attached here.

Time Table of Mid Term

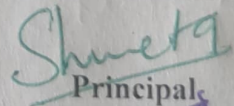
M.Sc. I SEM (Physics)

Time: -10 A.M.

Date	Paper	Unit Allotted
4-04-2022	Mathematical Method in Physics	I & II
5-04-2022	Classical Mechanics	I & III
6-04-2022	Quantum Mechanics	I & II
7-04-2022	Advanced Electronics	I & V


Department of Physics

Head of Department
PHYSICS
Maa Bharti P.G. College
Mahaveer Nagar- III, Kota (Ra)


Principal

प्राचार्य
माँ भारती स्वतंत्र नगर महाविद्यालय
महावीर नगर तृतीय, कोटा

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P.G. College, Kota (Raj)

M.Sc Physics

Subject - Mathematical Methods

Session - 2021-22

Date- 4-04-2022 SEM-I

Q1 Discuss the Laplace transform of the Gamma function?

Q2 Evaluate the integral

$$I = \int_0^{\pi} \frac{d\theta}{a - b \cos \theta}$$

where a and b are real with $a > b > 0$.

Q3 Show that

$$\int_0^{\infty} \frac{dx}{(x^2+1)(x^2+9)} = \frac{\pi}{24}$$

Q4 Calculate the inverse Laplace transform of the following

$$(i) f(s) = \frac{1}{\sqrt{2s+5}} \quad (ii) f(s) = \frac{e^{-\pi s}}{1+s^2}$$

Q5 State and derive Taylor's series

MAA BHARTI P.G. COLLEGE , M.N. III KOTA

MIDTERM ATTENDANCE LIST 2021-22

NAME OF FACULTY				
CLASS		M.SC. I SEMESTER 2021-22		
SUBJECT		MATHEMATICAL METHOD IN PHYSICS		
S.N.	STUDENTS NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	ANIL KUMAR MEENA	BAJRANG LAL MEENA	4-04-22	Anil
2	ANJALI MEENA	SHOBHAG MAL MEENA	4/04/22	Anjali
3	ANKUR NAGAR	RATAN LAL NAGAR	4-04-22	Ankur Nagar
4	JASWANT RATHORE	PRAKASH CHAND RATHORE	4-04-22	Jas
5	KUSUM MEENA	BRIJ GOPAL MEENA	4/04/22	Kusum Meena
6	MAYANK NAMA	JITENDRA NAMA	4/04/22	Mayank Nama
7	ROHIT GAUTAM	TIKAM CHAND GAUTAM	4/4/22	Rohit Gautam
8	SONU SUMAN	OM PRAKASH SUMAN	4/04/22	Sonu Suman
9	THAKUR SHARMA	GAJANAND SHARMA	4-04-22	Thakur

SHWETA SAXENA

25.04.2024 10:51



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

73001-M.Sc. PHYSICS SEMESTER-I EXAM.-DEC.-2021

7301-MATHEMATICAL METHODS IN PHYSICS-(-INT)

Batch NO: 5078

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	212083	ANIL KUMAR MEENA	BAJRANG LAL MEENA	30	27
2	221732	ANJALI MEENA	SHOBHAG MAL MEENA	30	28
3	221733	ANKUR NAGAR	RATAN LAL NAGAR	30	26
4	221734	JASWANT RATHORE	PRAKASH CHAND RATHORE	30	26
5	221735	KUSUM MEENA	BRIJ GOPAL MEENA	30	27
6	221736	MAYANK NAMA	JITENDRA NAMA	30	26
7	221737	ROHIT GAUTAM	TIKAM CHAND GAUTAM	30	28
8	221738	SONU SUMAN	OM PRAKASH SUMAN	30	26
9	221739	THAKUR SHARMA	GAJANAND SHARMA	30	28

Signature of External Examiner
DR. KANHAIYA LAL GALAV

Signature of Internal Examiner

Date of Submission.....



27-Jun-2022

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P.G. College, Kota (Raj)

M.Sc Physics

SEM - I

Subject - Classical Mechanics

Date - 5-04-2022

Session - 2021-22

Q1 Explain parametric oscillations.

Q2 Derive the Euler's Equations
and find out Eulerian angles

Q3 Explain the relativistic angular
Momentum.

Q4 Derive the Hamilton's Canonical
Equations

Q5 Explain the principle of virtual
work and D'Alembert's principle.

MAA BHARTI P.G. COLLEGE , M.N. III KOTA

MIDTERM ATTENDANCE LIST 2021-22

NAME OF FACULTY				
CLASS		M.SC. I SEMESTER 2021-22		
SUBJECT		CLASSICAL MECHANICS		
S.N.	STUDENTS NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	ANIL KUMAR MEENA	BAJRANG LAL MEENA	5-04-22	Anil
2	ANJALI MEENA	SHOBHAG MAL MEENA	5/4/22	Anjali
3	ANKUR NAGAR	RATAN LAL NAGAR	5-04-22	Ankur Nagar
4	JASWANT RATHORE	PRAKASH CHAND RATHORE	5-04-22	Jaswant
5	KUSUM MEENA	BRIJ GOPAL MEENA	5/04/22	Kusum Meena
6	MAYANK NAMA	JITENDRA NAMA	5/04/22	Mayank Nama
7	ROHIT GAUTAM	TIKAM CHAND GAUTAM	5/04/22	Rohit Gautam
8	SONU SUMAN	OM PRAKASH SUMAN	5-04-22	Sonu Suman
9	THAKUR SHARMA	GAJANAND SHARMA	5-04-22	Thakur

SHWETA SAXENA

25.04.2024 10:51



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

73001-M.Sc. PHYSICS SEMESTER-I EXAM.-DEC.-2021

7302-CLASSICAL MECHANICS-(-INT)

Batch NO: 5079

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	212083	ANIL KUMAR MEENA	BAJRANG LAL MEENA	30	27
2	221732	ANJALI MEENA	SHOBHAG MAL MEENA	30	29
3	221733	ANKUR NAGAR	RATAN LAL NAGAR	30	27
4	221734	JASWANT RATHORE	PRAKASH CHAND RATHORE	30	28
5	221735	KUSUM MEENA	BRIJ GOPAL MEENA	30	29
6	221736	MAYANK NAMA	JITENDRA NAMA	30	27
7	221737	ROHIT GAUTAM	TIKAM CHAND GAUTAM	30	29
8	221738	SONU SUMAN	OM PRAKASH SUMAN	30	28
9	221739	THAKUR SHARMA	GAJANAND SHARMA	30	29

Signature of External Examiner
DR. KANHAIYA LAL GALAV

Signature of Internal Examiner

Date of Submission.....



27-Jun-2022

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25.04.2024 10:51

Maan Bharti P.G. College, Kota (Raj.)

M.Sc Physics

SEM-I

Subject - Quantum Mechanics-I

Date - 6-04-2022 Session - 2021-22

Q.1 what is the significance of Pauli Matrices? Obtain results for the following commutators:

(1) $[\sigma_x, \sigma_y]$ (2) $[\sigma^2, \sigma_z]$

Q2 State and prove Wigner Eckart's theorem.

Q3 Define C.G. Coefficients & find C.G. coefficients in the addition of two angular momenta $j_1 = \frac{1}{2}$, and $j_2 = \frac{1}{2}$

Q4 If σ_x , σ_y and σ_z are the Pauli matrices, then prove the identity.

(a) $\sigma_x \sigma_y + \sigma_y \sigma_x = 0$ (b) $\sigma^2 = 3$

Q5 Explain the Hermiticity of the Hamiltonian matrix.

MAA BHARTI P.G. COLLEGE , M.N. III KOTA

MIDTERM ATTENDANCE LIST 2021-22

NAME OF FACULTY				
CLASS		M.SC. I SEMESTER 2021-22		
SUBJECT		QUANTUM MECHANICS		
S.N.	STUDENTS NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	ANIL KUMAR MEENA	BAJRANG LAL MEENA	6-04-22	Anil
2	ANJALI MEENA	SHOBHAG MAL MEENA	6/04/22	Anjali
3	ANKUR NAGAR	RATAN LAL NAGAR	6/04/22	Ankur Nagar
4	JASWANT RATHORE	PRAKASH CHAND RATHORE	6/04/22	Jas
5	KUSUM MEENA	BRIJ GOPAL MEENA	6-04-22	Kusum meena
6	MAYANK NAMA	JITENDRA NAMA	6/04/22	Mayank Nama
7	ROHIT GAUTAM	TIKAM CHAND GAUTAM	6-4-22	रहित गोतम
8	SONU SUMAN	OM PRAKASH SUMAN	6-4-22	Sonu Suman
9	THAKUR SHARMA	GAJANAND SHARMA	6-4-22	Thakur

SHWETA SAXENA

25.04.2024 10:51



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

73001-M.Sc. PHYSICS SEMESTER-I EXAM.-DEC.-2021

7303-QUANTUM MECHANICS-I-(-INT)

Batch NO: 5081

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	212083	ANIL KUMAR MEENA	BAJRANG LAL MEENA	30	27
2	221732	ANJALI MEENA	SHOBHAG MAL MEENA	30	29
3	221733	ANKUR NAGAR	RATAN LAL NAGAR	30	26
4	221734	JASWANT RATHORE	PRAKASH CHAND RATHORE	30	26
5	221735	KUSUM MEENA	BRIJ GOPAL MEENA	30	27
6	221736	MAYANK NAMA	JITENDRA NAMA	30	25
7	221737	ROHIT GAUTAM	TIKAM CHAND GAUTAM	30	29
8	221738	SONU SUMAN	OM PRAKASH SUMAN	30	27
9	221739	THAKUR SHARMA	GAJANAND SHARMA	30	29

Signature of External Examiner
DR. KANHAIYA LAL GALAV

Signature of Internal Examiner

Date of Submission.....



27-Jun-2022

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P.G. College, Kota (Raj)

M. Sc. Physics

SEM-I

Subject - Advanced Electronics.

Date - 7.04.2022

Session - 2021-22

Q1 write down about Reflection Coefficient.

Q2 Write a short note on PIN Photo-diode.

Q3 Write a short note on total internal reflection

Q4 Write a short note on Coaxial lines.

Q5 Explain double ~~hetero~~ heterostructure in Laser.

MAA BHARTI P.G. COLLEGE , M.N. III KOTA

MIDTERM ATTENDANCE LIST 2021-22

NAME OF FACULTY				
CLASS		M.SC. I SEMESTER 2021-22		
SUBJECT		PHYSICS <u>ADVANCED ELECTRONICS</u>		
S.N.	STUDENTS NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	ANIL KUMAR MEENA	BAJRANG LAL MEENA	7-04-22	Anil
2	ANJALI MEENA	SHOBHAG MAL MEENA	7/04/22	Anjali
3	ANKUR NAGAR	RATAN LAL NAGAR	7/04/22	Ankur Nagar
4	JASWANT RATHORE	PRAKASH CHAND RATHORE	7/04/22	Jasw
5	KUSUM MEENA	BRIJ GOPAL MEENA	7-04-22	Kusum Meena
6	MAYANK NAMA	JITENDRA NAMA	7-04-22	Mayank Nama
7	ROHIT GAUTAM	TIKAM CHAND GAUTAM	7/04/22	Rohit Gautam
8	SONU SUMAN	OM PRAKASH SUMAN	7/04/22	Sonu Suman
9	THAKUR SHARMA	GAJANAND SHARMA	7/04/22	Thakur

SHWETA SAXENA

25.04.2024 10:51



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

73001-M.Sc. PHYSICS SEMESTER-I EXAM.-DEC.-2021

7304-ADVANCED ELECTRONICS-(-INT)

Batch NO: 5082

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	212083	ANIL KUMAR MEENA	BAJRANG LAL MEENA	30	27
2	221732	ANJALI MEENA	SHOBHAG MAL MEENA	30	29
3	221733	ANKUR NAGAR	RATAN LAL NAGAR	30	26
4	221734	JASWANT RATHORE	PRAKASH CHAND RATHORE	30	27
5	221735	KUSUM MEENA	BRIJ GOPAL MEENA	30	27
6	221736	MAYANK NAMA	JITENDRA NAMA	30	26
7	221737	ROHIT GAUTAM	TIKAM CHAND GAUTAM	30	28
8	221738	SONU SUMAN	OM PRAKASH SUMAN	30	27
9	221739	THAKUR SHARMA	GAJANAND SHARMA	30	29

Signature of External Examiner
DR. KANHAIYA LAL GALAV

Signature of Internal Examiner

Date of Submission.....



27-Jun-2022

SHWETA SAXENA

25.04.2024 10:51



कार्यालय प्राचार्य, माँ भारती पी.जी. कॉलेज, कोटा

महावीर नगर तृतीय सर्किल सेक्टर-8,

कोटा-324005 राजस्थान

ई-मेल-mbpgcollege@yahoo.com

NOTICE

Physics Department

Date-26-08-2022

All the Students of M.Sc. (Session 2021-22) are here by informed that the Mid Term I will be held from 30-08-22 To 3-09-22 at 10 AM. Time table along with unit allotted are attached here.

Time Table of Mid Term

M.Sc. II SEM (Physics)

Time: -10 A.M.

Date	Paper	Unit Allotted
30-08-22	Statistical Physics	III & IV
1-09-22	Classical Electrodynamics I	II & III
2-09-22	Quantum Mechanics II	I & II
3-09-22	Atomic & Molecular Physics	I & III

Department of Physics

Head of Department
PHYSICS
Maa Bharti P.G. College
Mahaveer Nagar- III, Kota (Raj)

Principal

SHWETA SAXENA

25.04.2024 10:51

Maan Bhardi P.G. College, Kota (Raj.)

M.Sc. Physics

SEM-II

Subject - Statistical Mechanics

Date - 30-08-2022 Session - 2021-22

- Q1 → What are Micro-states and Macro-states? Discuss with examples.
- Q2 → Determines the possible number of arrangements of 3-Boson in 3-cells.
- Q3 → What is Entropy? Obtain expression for Entropy of a perfect Gas in Canonical Ensemble?
- Q4 → Discuss Drude theory of light?
- Q5 → Calculate average value of x^4 in the Ground state of oscillator i.e. $\langle 0 | x^4 | 0 \rangle$.

MAA BHARTI P.G. College , MAHAVEER NAGAR 3rd KOTA

MSC_PHYSICS_2_ Semester 2021-22

Mid-Term Attendance List

DATE:- 30/08/2022

SUBJECT :- Statistical Physics

S. No	Student Name	Father's Name	Category	Signature of Students
1	ANIL KUMAR MEENA	BAJRANG LAL MEENA	Regular	Anil
2	ANJALI MEENA	SHOBHAG MAL MEENA	Regular	Anjali
3	ANKUR NAGAR	RATAN LAL NAGAR	Regular	Ankur Nagar
4	JASWANT RATHORE	PRAKASH CHAND RATHORE	Regular	Jaswant
5	KUSUM MEENA	BRIJGOPAL MEENA	Regular	Kusum Meena
6	MAYANK NAMA	JITENDRA NAMA	Regular	Mayank Nama
7	ROHIT GAUTAM	TIKAM CHAND GAUTAM	Regular	Rohit Gautam
8	SONU SUMAN	OM PRAKASH SUMAN	Regular	Sonu Suman
9	THAKUR SHARMA	GAJANAND SHARMA	Regular	Thakur Sharma

SHWETA SAXENA

25/04/2024 10:51



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

73002-M.Sc. PHYSICS SEM.-II EXAM - 2022

7311-STATISTICAL MECHANICS-(INT)

Batch NO: 14578

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	212083	ANIL KUMAR MEENA	BAJRANG LAL MEENA	30	28
2	221732	ANJALI MEENA	SHOBHAG MAL MEENA	30	29
3	221733	ANKUR NAGAR	RATAN LAL NAGAR	30	27
4	221734	JASWANT RATHORE	PRAKASH CHAND RATHORE	30	27
5	221735	KUSUM MEENA	BRIJ GOPAL MEENA	30	27
6	221736	MAYANK NAMA	JITENDRA NAMA	30	27
7	221737	ROHIT GAUTAM	TIKAM CHAND GAUTAM	30	29
8	221738	SONU SUMAN	OM PRAKASH SUMAN	30	28
9	221739	THAKUR SHARMA	GAJANAND SHARMA	30	27

Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner
DR. KANHAIYA LAL GALAV

17-Sep-2022

SHWETA SAXENA

25.04.2024 10:51

Maa Bhaarti P.G. College, Kota (Raj.)

M.Sc. Physics

SEM-II

Subject $\rightarrow$ Classical Electrodynamics
-I

Date- 1-09-2022 Session $\rightarrow$ 2021-22

Q1 what is Gauge transformation of electromagnetic field potentials?
What is Lorentz Gauge?

Q2 Deduce the boundary conditions that the fields $\vec{E}$, $\vec{D}$, $\vec{B}$ and $\vec{H}$ have to satisfy at a boundary between two different media,

Q3 Find formal solution of electrostatic boundary value problem with Green's function.?

Q4 Find electrostatic energy in dielectric media?

Q5 Write conservation laws for macroscopic media

MAA BHARTI P.G. COLLEGE , M.N. III KOTA

MIDTERM ATTENDANCE LIST 2021-22

NAME OF FACULTY		Lokesh Rathore.		
CLASS		M.SC.II SEMESTER 2021-22		
SUBJECT		PHYSICS <i>classical Electrodynamics - I</i>		
S.N.	STUDENTS NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	ANIL KUMAR MEENA	BAJRANG LAL MEENA	31-08-22	Anil
2	ANJALI MEENA	SHOBHAG MAL MEENA	31-08-22	Anjali
3	ANKUR NAGAR	RATAN LAL NAGAR	31/08/22	Ankur Nagar
4	JASWANT RATHORE	PRAKASH CHAND RATHORE	31/08/22	Jas
5	KUSUM MEENA	BRIJ GOPAL MEENA	31/08/22	Kusum Meena
6	MAYANK NAMA	JITENDRA NAMA	31-08-22	Mayank Nama
7	ROHIT GAUTAM	TIKAM CHAND GAUTAM	31-08-22	Rohit Gautam
8	SONU SUMAN	OM PRAKASH SUMAN	31/08/22	Sonu Suman
9	THAKUR SHARMA	GAJANAND SHARMA	31/08/22	Thakur
10				
11				SHWETA SAXENA
12				25.04.2024 10:51
13				



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

73002-M.Sc. PHYSICS SEM.-II EXAM - 2022
7312-CLASSICAL ELECTRODYNAMICS -I-(INT)

Batch NO: 14580

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	212083	ANIL KUMAR MEENA	BAJRANG LAL MEENA	30	28
2	221732	ANJALI MEENA	SHOBHAG MAL MEENA	30	29
3	221733	ANKUR NAGAR	RATAN LAL NAGAR	30	27
4	221734	JASWANT RATHORE	PRAKASH CHAND RATHORE	30	28
5	221735	KUSUM MEENA	BRIJ GOPAL MEENA	30	28
6	221736	MAYANK NAMA	JITENDRA NAMA	30	27
7	221737	ROHIT GAUTAM	TIKAM CHAND GAUTAM	30	29
8	221738	SONU SUMAN	OM PRAKASH SUMAN	30	27
9	221739	THAKUR SHARMA	GAJANAND SHARMA	30	28

Signature of Internal Examiner

Date of Submission.....



Signature of External Examiner
DR. KANHAIYA LAL GALAV

17-Sep-2022

SHWETA SAXENA

25.04.2024 10:51

Maa - Bharti P.G. College, Kota (Raj.)

M.Sc. Physics

SEM-II

Subject - Quantum Mechanics - II

Date - 2.09.2022 Session - 2021-22

Q1 Discuss the scattering of identical particles and compare the classical and quantum mechanics results.

Q2 Deduce flipmann - schwinger integral equation.

Q3 Explain Dirac "hole theory" to resolve the problem of negative energy solutions

Q4 Derive an expression for Born wigner formula explaining its physical significance?

Q5 Discuss the relativistic formulations in quantum theory and develop the K.G. Equation for a spin zero particle.

MAA BHARTI P.G. College , MAHAVEER NAGAR 3rd KOTA

MSC_PHYSICS_2_Semester 2021-22

Mid-Term Attendance List

DATE:- 02/09/2022

SUBJECT :- Quantum mechanics - II

S. No	Student Name	Father's Name	Category	Signature of Students
1	ANIL KUMAR MEENA	BAJRANG LAL MEENA	Regular	Anil
2	ANJALI MEENA	SHOBHAG MAL MEENA	Regular	Anjali
3	ANKUR NAGAR	RATAN LAL NAGAR	Regular	Ankur Nagar
4	JASWANT RATHORE	PRAKASH CHAND RATHORE	Regular	Jaswant Rathore
5	KUSUM MEENA	BRIJGOPAL MEENA	Regular	Kusum Meena
6	MAYANK NAMA	JITENDRA NAMA	Regular	Mayank Nama
7	ROHIT GAUTAM	TIKAM CHAND GAUTAM	Regular	रोहित गौतम
8	SONU SUMAN	OM PRAKASH SUMAN	Regular	Sonu Suman
9	THAKUR SHARMA	GAJANAND SHARMA	Regular	Thakur

SHWETA SAXENA

25.04.2024 10:51



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

73002-M.Sc. PHYSICS SEM.-II EXAM - 2022

7313-QUANTUM MECHANICS-II-(INT)

Batch NO: 14582

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	212083	ANIL KUMAR MEENA	BAJRANG LAL MEENA	30	27
2	221732	ANJALI MEENA	SHOBHAG MAL MEENA	30	28
3	221733	ANKUR NAGAR	RATAN LAL NAGAR	30	26
4	221734	JASWANT RATHORE	PRAKASH CHAND RATHORE	30	27
5	221735	KUSUM MEENA	BRIJ GOPAL MEENA	30	28
6	221736	MAYANK NAMA	JITENDRA NAMA	30	26
7	221737	ROHIT GAUTAM	TIKAM CHAND GAUTAM	30	28
8	221738	SONU SUMAN	OM PRAKASH SUMAN	30	27
9	221739	THAKUR SHARMA	GAJANAND SHARMA	30	27

Signature of Internal Examiner

Date of Submission.....



Signature of External Examiner
DR. KANHAIYA LAL GALAV

17-Sep-2022

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P.G. College, Kota (Raj.)

M.Sc Physics.

Subject — Atomic and Molecular
Physics

SEM-II

Date - 3-09-2022 Session → 2021-22

Q1 Discuss the fine structure of infrared bands of a diatomic Molecules, obtain the wave-number of branch lines of Particular Bands.

Q2 Discuss the probability distribution of radial and angular ($l = 1, 2$) wave functions of Hydrogen atom.

Q3 Discuss the Born-Oppenheimer for Molecular Spectra with necessary quantum-Mechanical Explanation.

Q4 For a rigid rotator, obtain the rotational levels and show it consists of a series of Equidistant lines for transition b/w various levels

Q5 Find out the α_{pm} -orbit Correction to for first order perturbation in hydrogen atom.

MAA BHARTI P.G. College , MAHAVEER NAGAR 3rd KOTA

MSC_PHYSICS_2_ Semester 2021-22

Mid-Term Attendance List

DATE:- 3 Sept. 2022

SUBJECT :- ATOMIC & MOLECULAR

S. No	Student Name	Father's Name	Category	Signature of Students
1	ANIL KUMAR MEENA	BAJRANG LAL MEENA	Regular	Anil
2	ANJALI MEENA	SHOBHAG MAL MEENA	Regular	Anjali
3	ANKUR NAGAR	RATAN LAL NAGAR	Regular	Ankur Nagar
4	JASWANT RATHORE	PRAKASH CHAND RATHORE	Regular	Jaswant Rathore
5	KUSUM MEENA	BRIJGOPAL MEENA	Regular	Kusum Meena
6	MAYANK NAMA	JITENDRA NAMA	Regular	Mayank Nama
7	ROHIT GAUTAM	TIKAM CHAND GAUTAM	Regular	रोहित गाँतम
8	SONU SUMAN	OM PRAKASH SUMAN	Regular	Sonu Suman
9	THAKUR SHARMA	GAJANAND SHARMA	Regular	Thakur

SHWETA SAXENA

25.04.2024 10:51



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

73002-M.Sc. PHYSICS SEM.-II EXAM - 2022
7314-ATOMIC AND MOLECULAR PHYSICS-(INT)

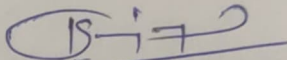
Batch NO: 14583

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	212083	ANIL KUMAR MEENA	BAJRANG LAL MEENA	30	29
2	221732	ANJALI MEENA	SHOBHAG MAL MEENA	30	28
3	221733	ANKUR NAGAR	RATAN LAL NAGAR	30	26
4	221734	JASWANT RATHORE	PRAKASH CHAND RATHORE	30	28
5	221735	KUSUM MEENA	BRIJ GOPAL MEENA	30	29
6	221736	MAYANK NAMA	JITENDRA NAMA	30	27
7	221737	ROHIT GAUTAM	TIKAM CHAND GAUTAM	30	28
8	221738	SONU SUMAN	OM PRAKASH SUMAN	30	29
9	221739	THAKUR SHARMA	GAJANAND SHARMA	30	27

Signature of Internal Examiner

Date of Submission.....




Signature of External Examiner
DR. KANHAIYA LAL GALAV

17-Sep-2022

SHWETA SAXENA

25.04.2024 10:51



कार्यालय प्राचार्य, माँ भारती पी.जी. कॉलेज, कोटा

महावीर नगर तृतीय सर्किल सेक्टर-8,

कोटा-324005 राजस्थान

ई-मेल-mbpgcollege@yahoo.com

NOTICE

Physics Department

Date—8-02-23

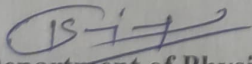
All the Students of M.Sc. (Session 2022—23) are here by informed that the Mid Term I will be held from 13-02-23 To 16-02-23 at 10 AM. Time table along with unit allotted are attached here.

Time Table of Mid Term

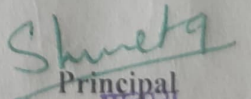
M.Sc. III SEM (Physics)

Time: -10 A.M.

Date	Paper	Unit Allotted
13-02-23	Nuclear Physics I	I, II & III
14-02-23	Classical Electrodynamics II	I, II & III
15-02-23	Solid State Theory	I, II & III
16-02-23	Energy Studies I	I, II & III


Department of Physics

Head of Department
PHYSICS
Maan Bhanu College
Mahaveer Nagar III, Kota (Raj)


Principal
माँ भारती स्नातकोत्तर महाविद्यालय
महावीर नगर तृतीय, कोटा

SHWETA SAXENA

25.04.2024 10:51

Ma Bhaarti P.G. College, Kota (Raj)
M.Sc Physics

SEM-III

Subject - Nuclear physics-I

Date - 13-02-23 Session - 2021-22

- Q1 What is the liquid drop Model of nucleus. Explain the fission process of nucleus with the help of above Model.
- Q2 Explain the various properties of nuclear forces and Give a brief detail about Meson theory of nuclear forces.
- Q3 Why deuteron does not exist in singlet state.
- Q4 Discuss the neutron-neutron scattering at low Energy.
- Q5 n-p system (deuteron) form a bound state where as diproton (p-p) and dineutron (n-n) are not bound. Explain the reasons.

MAA BHARTI P.G. COLLEGE, M.N. III , KOTA

MIDTERM ATTENDANCE LIST 2022-23

NAME OF FACULTY		Alai Department of Physics (Dapna Sharma)		
CLASS		M.Sc. III SEMESTER 2022-23		
SUBJECT		PHYSICS Nuclear Physics		
S. N.	STUDENT NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	ANIL KUMAR MEENA	BAJRANG LAL MEENA	13-02-23	Anil
2	ANJALI MEENA	SHOBHAG MAL MEENA	13-02-23	Anjali
3	ANKIT MEENA	BHANWAR LAL MEENA	13-02-23	Ankit
4	ANKUR NAGAR	RATAN LAL NAGAR	13-02-23	Ankur Nagar
5	JASWANT RATHORE	PRAKASH CHAND RATHORE	13-02-23	Jul
6	KUSUM MEENA	BRIJGOPAL MEENA	13-02-23	Kusum Meena
7	MAYANK NAMA	JITENDRA NAMA	13-02-23	Mayank Nama
8	ROHIT GAUTAM	TIKAM CHAND GAUTAM	13-02-23	Rohit Gautam
9	SONU SUMAN	OM PRAKASH SUMAN	13-02-23	Sonu Suman
10	THAKUR SHARMA	GAJANAND SHARMA	13-02-23	Thakur
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UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

73003-M.Sc. PHYSICS SEMESTER-III EXAM.-DEC.-2022

7321-NUCLEAR PHYSICS -I-(INT)

Batch NO: 36524

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	192382	ANKIT MEENA	BHANWAR LAL MEENA	30	24
2	212083	ANIL KUMAR MEENA	BAJRANG LAL MEENA	30	27
3	221732	ANJALI MEENA	SHOBHAG MAL MEENA	30	29
4	221733	ANKUR NAGAR	RATAN LAL NAGAR	30	24
5	221734	JASWANT RATHORE	PRAKASH CHAND RATHORE	30	28
6	221735	KUSUM MEENA	BRIJ GOPAL MEENA	30	29
7	221736	MAYANK NAMA	JITENDRA NAMA	30	24
8	221737	ROHIT GAUTAM	TIKAM CHAND GAUTAM	30	29
9	221738	SONU SUMAN	OM PRAKASH SUMAN	30	25
10	221739	THAKUR SHARMA	GAJANAND SHARMA	30	25

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

10-Apr-2023

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Mod. Bhavtic P.G. College, Kota (Raj.)

M.Sc Physics

SEM - III

Subject - Classical Electrodynamics-II

Date - 14-02-2023

Session - 2021-22

- Q1. Define plasma Show that the dielectric constant of a uniform unmagnetized plasma is $\epsilon = 1 - \frac{\omega_p^2}{\omega^2}$
- Q2. Explain Debye shielding of a plasma. Deduce an expression for Debye length. What is plasma parameter.
- Q3. What are plasma oscillations? Deduce an expression for the plasma frequency.?
- Q4. Deduce dispersion relation for plasma waves in warm plasma. Plot the dispersion relation on $\omega-k$ graph.
- Q5. Find Larmor's formula of radiation..

MAA BHARTI P.G. COLLEGE, M.N. III , KOTA

MIDTERM ATTENDANCE LIST 2022-23

NAME OF FACULTY		Department of Physics (Kirti Soni)		
CLASS		M.Sc. III SEMESTER 2022-23		
SUBJECT		PHYSICS classical Electrodynamics - II		
S. N.	STUDENT NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	ANIL KUMAR MEENA	BAJRANG LAL MEENA	14-02-23	Anil
2	ANJALI MEENA	SHOBHAG MAL MEENA	14-02-23	Anjali
3	ANKIT MEENA	BHANWAR LAL MEENA	14-02-23	Ankit
4	ANKUR NAGAR	RATAN LAL NAGAR	14-02-23	Ankur Nagar
5	JASWANT RATHORE	PRAKASH CHAND RATHORE	14-02-23	Jul
6	KUSUM MEENA	BRIJGOPAL MEENA	14-02-23	Kusum Meena
7	MAYANK NAMA	JITENDRA NAMA	14-02-23	Mayank Nama
8	ROHIT GAUTAM	TIKAM CHAND GAUTAM	14-02-23	Rohit Gautam
9	SONU SUMAN	OM PRAKASH SUMAN	14-02-23	Sonu Suman
10	THAKUR SHARMA	GAJANAND SHARMA	14-02-23	Thakur
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UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

73003-M.Sc. PHYSICS SEMESTER-III EXAM.-DEC.-2022

7322-CLASSICAL ELECTRODYNAMICS-II-(INT)

Batch NO: 36525

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	192382	ANKIT MEENA	BHANWAR LAL MEENA	30	25
2	212083	ANIL KUMAR MEENA	BAJRANG LAL MEENA	30	26
3	221732	ANJALI MEENA	SHOBHAG MAL MEENA	30	29
4	221733	ANKUR NAGAR	RATAN LAL NAGAR	30	25
5	221734	JASWANT RATHORE	PRAKASH CHAND RATHORE	30	29
6	221735	KUSUM MEENA	BRIJ GOPAL MEENA	30	29
7	221736	MAYANK NAMA	JITENDRA NAMA	30	24
8	221737	ROHIT GAUTAM	TIKAM CHAND GAUTAM	30	29
9	221738	SONU SUMAN	OM PRAKASH SUMAN	30	25
10	221739	THAKUR SHARMA	GAJANAND SHARMA	30	24

Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner

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10-Apr-2023

Maa Bharti P.G. College, Kota (Raj)

M.Sc. Physics

SEM - III

Subject - Solid State Theory - I

Date - 15-02-2023

Session - 2021-22

- Q1 Discuss various schemes for construction of Fermi surfaces of a solid.
- Q2 Discuss BCS theory of Superconductivity.
- Q3 What do you mean by "Hall Effect"? obtain the Expression for Hall Coefficient?
- Q4 Discuss the Effective mass in Semi Conductors and obtain the Expression for it.
- Q5 Write short notes on Hartree Fock theory.

MAA BHARTI P.G. COLLEGE, M.N. III , KOTA

MIDTERM ATTENDANCE LIST 2022-23

NAME OF FACULTY		<i>Dr. Galav</i>		
CLASS		M.Sc. III SEMESTER 2022-23		
SUBJECT		PHYSICS <i>Solid state Physics</i>		
S. N.	STUDENT NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	ANIL KUMAR MEENA	BAJRANG LAL MEENA	15-02-23	<i>Anil</i>
2	ANJALI MEENA	SHOBHAG MAL MEENA	15-02-23	<i>Anjali</i>
3	ANKIT MEENA	BHANWAR LAL MEENA	15-02-23	<i>Ankit</i>
4	ANKUR NAGAR	RATAN LAL NAGAR	15-02-23	<i>Ankur Nagar</i>
5	JASWANT RATHORE	PRAKASH CHAND RATHORE	15-02-23	<i>Jul</i>
6	KUSUM MEENA	BRIJGOPAL MEENA	15-02-23	<i>Kusum Meena</i>
7	MAYANK NAMA	JITENDRA NAMA	15-02-23	<i>Mayank Nama</i>
8	ROHIT GAUTAM	TIKAM CHAND GAUTAM	15-02-23	<i>Rohit Gautam</i>
9	SONU SUMAN	OM PRAKASH SUMAN	15-02-23	<i>Sonu Suman</i>
10	THAKUR SHARMA	GAJANAND SHARMA	15-02-23	<i>Thakur</i>
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UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

73003-M.Sc. PHYSICS SEMESTER-III EXAM.-DEC.-2022

7323-SOLID STATE THEORY-(INT)

Batch NO: 36526

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	192382	ANKIT MEENA	BHANWAR LAL MEENA	30	25
2	212083	ANIL KUMAR MEENA	BAJRANG LAL MEENA	30	27
3	221732	ANJALI MEENA	SHOBHAG MAL MEENA	30	29
4	221733	ANKUR NAGAR	RATAN LAL NAGAR	30	25
5	221734	JASWANT RATHORE	PRAKASH CHAND RATHORE	30	28
6	221735	KUSUM MEENA	BRIJ GOPAL MEENA	30	29
7	221736	MAYANK NAMA	JITENDRA NAMA	30	25
8	221737	ROHIT GAUTAM	TIKAM CHAND GAUTAM	30	29
9	221738	SONU SUMAN	OM PRAKASH SUMAN	30	24
10	221739	THAKUR SHARMA	GAJANAND SHARMA	30	24

Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner
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25.04.2024 10:51

10-Apr-2023

Maa Bharti P.G. College, Kota (Raj)

M.Sc. & physics

SEM - III

Subject - Energy Studies - I

Date - 16-02-2023 Session - 2021-22

Q1 Describe with the help of diagram the components of liquid flat plate collector.

Q2 Explain solar-thermal conversion system with the help of diagram.

Q3 What are the line focussing and point focussing concentrators. Discuss with examples.

Q4 Describe characteristic curve of a solar cell with suitable diagram.

Q5 What are basic components of solar photovoltaic system. Explain briefly.

MAA BHARTI P.G. COLLEGE, M.N. III , KOTA

MIDTERM ATTENDANCE LIST 2022-23

NAME OF FACULTY		Dr. Sapna Sharma		
CLASS		M.Sc. III SEMESTER 2022-23		
SUBJECT		PHYSICS Energy studies		
S. N.	STUDENT NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	ANIL KUMAR MEENA	BAJRANG LAL MEENA	16-02-23	Anil
2	ANJALI MEENA	SHOBHAG MAL MEENA	16-02-23	Anjali
3	ANKIT MEENA	BHANWAR LAL MEENA	16-02-23	Ankit
4	ANKUR NAGAR	RATAN LAL NAGAR	16-02-23	Ankur Nagar
5	JASWANT RATHORE	PRAKASH CHAND RATHORE	16-02-23	Jas
6	KUSUM MEENA	BRIJGOPAL MEENA	16-02-23	Kusum Meena
7	MAYANK NAMA	JITENDRA NAMA	16-02-23	Mayank Nama
8	ROHIT GAUTAM	TIKAM CHAND GAUTAM	16-02-23	Rohit Gautam
9	SONU SUMAN	OM PRAKASH SUMAN	16-02-23	Sonu Suman
10	THAKUR SHARMA	GAJANAND SHARMA	16-02-23	Thakur
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UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

73003-M.Sc. PHYSICS SEMESTER-III EXAM.-DEC.-2022

7324-ENERGY STUDIES-I-(INT)

Batch NO: 36527

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	192382	ANKIT MEENA	BHANWAR LAL MEENA	30	24
2	212083	ANIL KUMAR MEENA	BAJRANG LAL MEENA	30	26
3	221732	ANJALI MEENA	SHOBHAG MAL MEENA	30	29
4	221733	ANKUR NAGAR	RATAN LAL NAGAR	30	24
5	221734	JASWANT RATHORE	PRAKASH CHAND RATHORE	30	28
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7	221736	MAYANK NAMA	JITENDRA NAMA	30	25
8	221737	ROHIT GAUTAM	TIKAM CHAND GAUTAM	30	29
9	221738	SONU SUMAN	OM PRAKASH SUMAN	30	24
10	221739	THAKUR SHARMA	GAJANAND SHARMA	30	25

Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner

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10-Apr-2023
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कार्यालय प्राचार्य, माँ भारती पी.जी. कॉलेज, कोटा

महावीर नगर तृतीय सर्किल सेक्टर-8,

कोटा-324005 राजस्थान

ई-मेल-mbpgcollege@yahoo.com

NOTICE

Physics Department

Date-30-06-23

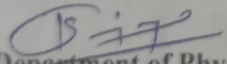
All the Students of M.Sc. (Session 2022-23) are hereby informed that the Mid Term I will be held from 05-07-23 To 08-07-23 at 10 AM. Time table along with unit allotted are attached here.

Time Table of Mid Term

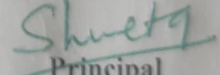
M.Sc. IV SEM (Physics)

Time: - 10 A.M.

Date	Paper	Unit Allotted
5-07-23	Nuclear Physics II	I & II
6-07-23	Solid State Physics II	I & II
7-07-23	Laser	I & II
8-07-23	Energy Physics II	I & II


Department of Physics

Head of Department
PHYSICS
Maa Bharti P.G. College
Mahaveer Nagar III, Kota (Raj)


Principal

प्राचार्य
माँ भारती स्नातकोत्तर महाविद्यालय
महावीर नगर तृतीय, कोटा

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Maa Bhardi P. G. College, Kota (Raj)

M.Sc. (Physics)

SEM - IV

Subject — Nuclear Physics II

Date - 5-07-23

Session - 2021-22

- Q1 Give a brief-detail of spin orbit interaction in shell Model.
- Q2 Explain the distribution of isomeric nuclei on the basis of shell Model.
- Q3 Discuss the collective Model of nuclei in case of quadratic approximation.
- Q4 What is meant by the reduced transition probabilities in case of 2^+ -transition? Explain.
- Q5 Describe the ~~var~~ vibrational modes of a spherical nucleus

MAA BHARTI P.G. COLLEGE , M.N. III KOTA

MIDTERM ATTENDANCE LIST 2022-23

NAME OF FACULTY		Kirti Sani		
CLASS		M.SC. IV SEMESTER 2022-23		
SUBJECT		PHYSICS Nuclear Physics - II		
S.N.	STUDENTS NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	ANIL KUMAR MEENA	BAJRANG LAL MEENA	5/7/23	Anil
2	ANJALI MEENA	SHOBHAG MAL MEENA	5/7/23	Anjali
3	ANKIT MEENA	BHANWARLAL MEENA	5/7/23	Ankit
4	ANKUR NAGAR	RATAN LAL NAGAR	5/7/23	Ankur Nagar
5	JASWANT RATHORE	PRAKASH CHAND RATHORE	5/7/23	Jas
6	KUSUM MEENA	BRIJ GOPAL MEENA	5/7/2023	Kusum meena
7	MAYANK NAMA	JITENDRA NAMA	5/7/2023	Mayank Nama
8	ROHIT GAUTAM	TIKAM CHAND GAUTAM	5/7/2023	रोहित गौतम
9	SONU SUMAN	OM PRAKASH SUMAN	5/7/23	Sonu Suman
10	THAKUR SHARMA	GAJANAND SHARMA	5/7/23	Thakur
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UNIVERSITY OF KOTA, KOTA
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

73004-M.Sc. PHYSICS SEMESTER-IV EXAM.-JUNE 2023
7331-NUCLEAR PHYSICS-II-(INT)

Batch NO: 50554

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	192382	ANKIT MEENA	BHANWAR LAL MEENA	30	27
2	212083	ANIL KUMAR MEENA	BAJRANG LAL MEENA	30	28
3	221732	ANJALI MEENA	SHOBHAG MAL MEENA	30	29
4	221733	ANKUR NAGAR	RATAN LAL NAGAR	30	27
5	221734	JASWANT RATHORE	PRAKASH CHAND RATHORE	30	29
6	221735	KUSUM MEENA	BRIJ GOPAL MEENA	30	29
7	221736	MAYANK NAMA	JITENDRA NAMA	30	27
8	221737	ROHIT GAUTAM	TIKAM CHAND GAUTAM	30	28
9	221738	SONU SUMAN	OM PRAKASH SUMAN	30	27
10	221739	THAKUR SHARMA	GAJANAND SHARMA	30	28

Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner

SHWETA SAXENA

25-04-2024 10:51
23-Aug-2023

Maan Bhaeti P.G. College, Kota (Raj)

M.Sc. (Physics)

SEM - IV

Subject - Solid State physics-II

Date - 6-07-2023 Session = 2020-22

Q1. Explain

(i) Ferromagnetic Structure

(ii) Anti-ferromagnetic Structure

also Give exp examples of each Structure.

Q2 Explain the term "Dielectric breakdown".

Discuss the various mechanisms responsible for dielectric breakdown. Give applications of dielectric Materials.

Q3. Explain Motional narrowing of resonance Line.

Q4 Explain thermal Expansion using the Potential Energy V 's interatomic spacing curve. Give the required Expressions to formulate it.

Q5 Discuss quantum theory of diamagnetism and obtain the Expression of Magnetic Susceptibility of a diamagnetic material.

MAA BHARTI P.G. COLLEGE , M.N. III KOTA

MIDTERM ATTENDANCE LIST 2022-23

NAME OF FACULTY		Dr. K.L. Galore Sir.		
CLASS		M.SC. IV SEMESTER 2022-23		
SUBJECT		PHYSICS Solid state Physics		
S.N.	STUDENTS NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	ANIL KUMAR MEENA	BAJRANG LAL MEENA	6/7/23	Anil
2	ANJALI MEENA	SHOBHAG MAL MEENA	6/7/23	Anjali
3	ANKIT MEENA	BHANWARLAL MEENA	06/07/2023	Ankit
4	ANKUR NAGAR	RATAN LAL NAGAR	06/07/23	Ankur Nagar
5	JASWANT RATHORE	PRAKASH CHAND RATHORE	6/7/2023	Jul
6	KUSUM MEENA	BRIJ GOPAL MEENA	6/7/2023	Kusum Meena
7	MAYANK NAMA	JITENDRA NAMA	6/7/2023	Mayank Nama
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9	SONU SUMAN	OM PRAKASH SUMAN	6/7/23	Sonu Suman
10	THAKUR SHARMA	GAJANAND SHARMA	6/7/2023	Thakur
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UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

73004-M.Sc. PHYSICS SEMESTER-IV EXAM.-JUNE 2023

7332-SOLID STATE PHYSICS-(INT)

Batch NO: 50556

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	192382	ANKIT MEENA	BHANWAR LAL MEENA	30	28
2	212083	ANIL KUMAR MEENA	BAJRANG LAL MEENA	30	29
3	221732	ANJALI MEENA	SHOBHAG MAL MEENA	30	29
4	221733	ANKUR NAGAR	RATAN LAL NAGAR	30	28
5	221734	JASWANT RATHORE	PRAKASH CHAND RATHORE	30	29
6	221735	KUSUM MEENA	BRIJ GOPAL MEENA	30	29
7	221736	MAYANK NAMA	JITENDRA NAMA	30	28
8	221737	ROHIT GAUTAM	TIKAM CHAND GAUTAM	30	29
9	221738	SONU SUMAN	OM PRAKASH SUMAN	30	27
10	221739	THAKUR SHARMA	GAJANAND SHARMA	30	29

Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner

SHWETA SAXENA

25.04.2024 10:51

23-Aug-2023

Maa Bharti P.G. College, Kota (Raj)

M.Sc. (physics)

SEM - IV

Subject - Laser physics

Date - 7-07-2023 Session - 2021-22

Q1 What are the possible reasons behind spiking action in Ruby laser output.

Q2 Explain Energy level diagram of 4-level lasing system and discuss transitions between the ~~levels~~ levels.

Q3 Explain the working of Excimer laser.

Q4 Discuss the stable and unstable optical resonators.

Q5 Discuss mode locking in laser.

MAA BHARTI P.G. COLLEGE , M.N. III KOTA

MIDTERM ATTENDANCE LIST 2022-23

NAME OF FACULTY		Dr. Sapna Sharma		
CLASS		M.SC. IV SEMESTER 2022-23		
SUBJECT		PHYSICS (Laser)		
S.N.	STUDENTS NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	ANIL KUMAR MEENA	BAJRANG LAL MEENA	7/7/23	Anil.
2	ANJALI MEENA	SHOBHAG MAL MEENA	7/7/23	Anjali
3	ANKIT MEENA	BHANWARLAL MEENA	07/7/23	Ankit
4	ANKUR NAGAR	RATAN LAL NAGAR	7/7/23	Ankur Nagar
5	JASWANT RATHORE	PRAKASH CHAND RATHORE	7/07/2023	Jul
6	KUSUM MEENA	BRIJ GOPAL MEENA	7/7/2023	Kusum Meena
7	MAYANK NAMA	JITENDRA NAMA	7/07/2023	Mayank Nama
8	ROHIT GAUTAM	TIKAM CHAND GAUTAM	7/07/2023	रोहित गौतम
9	SONU SUMAN	OM PRAKASH SUMAN	7/07/23	Sonu Suman
10	THAKUR SHARMA	GAJANAND SHARMA	7/07/23	Thakur
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UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

73004-M.Sc. PHYSICS SEMESTER-IV EXAM.-JUNE 2023

7333-LASERS PHYSICS-(INT)

Batch NO: 50557

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	192382	ANKIT MEENA	BHANWAR LAL MEENA	30	28
2	212083	ANIL KUMAR MEENA	BAJRANG LAL MEENA	30	29
3	221732	ANJALI MEENA	SHOBHAG MAL MEENA	30	29
4	221733	ANKUR NAGAR	RATAN LAL NAGAR	30	28
5	221734	JASWANT RATHORE	PRAKASH CHAND RATHORE	30	29
6	221735	KUSUM MEENA	BRIJ GOPAL MEENA	30	29
7	221736	MAYANK NAMA	JITENDRA NAMA	30	28
8	221737	ROHIT GAUTAM	TIKAM CHAND GAUTAM	30	29
9	221738	SONU SUMAN	OM PRAKASH SUMAN	30	28
10	221739	THAKUR SHARMA	GAJANAND SHARMA	30	28

Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner

SHWETA SAXENA

25.04.2024 10:51

23-Aug-2023

Maa Bharti P.G. College, Kota (Raj.)
M.Sc. (Physics)

SEM - IV

Subject - Energy Studies - II

Date - 8-07-2023 Session - 2021-22

Q1 What do you understand by radioactive disintegration? State the law of radioactive disintegration and derive it.

Q2 What is the term "Spin and Magnetic Moment" of a nucleus. Describe an experimental method to determine any one of them.

Q3 State and prove diffusion Equation.

Q4 Explain magnetic and inertial confinement.

Q5 Explain concepts of Mass Energy Equivalence mass defect and Binding Energy.

MAA BHARTI P.G. COLLEGE , M.N. III KOTA

MIDTERM ATTENDANCE LIST 2022-23

NAME OF FACULTY		Dr. Sapna Sharma		
CLASS		M.SC. IV SEMESTER 2022-23		
SUBJECT		PHYSICS <i>Energy-II</i>		
S.N.	STUDENTS NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	ANIL KUMAR MEENA	BAJRANG LAL MEENA	8/7/23	Anil
2	ANJALI MEENA	SHOBHAG MAL MEENA	8/7/23	Anjali
3	ANKIT MEENA	BHANWARLAL MEENA	08/07/23	Ankit
4	ANKUR NAGAR	RATAN LAL NAGAR	08/7/23	Ankur Nagar
5	JASWANT RATHORE	PRAKASH CHAND RATHORE	8/7/23	Jul.
6	KUSUM MEENA	BRIJ GOPAL MEENA	8/7/2023	Kusum Meena
7	MAYANK NAMA	JITENDRA NAMA	8/7/23	Mayank Nama
8	ROHIT GAUTAM	TIKAM CHAND GAUTAM	8/7/23 8/7/23	रौहित गौतम
9	SONU SUMAN	OM PRAKASH SUMAN	8/7/23	Sonu Suman
10	THAKUR SHARMA	GAJANAND SHARMA	8/7/23	Thakur
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UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

73004-M.Sc. PHYSICS SEMESTER-IV EXAM.-JUNE 2023

7334-ENERGY STUDIES-II-(INT)

Batch NO: 50558

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	192382	ANKIT MEENA	BHANWAR LAL MEENA	30	28
2	212083	ANIL KUMAR MEENA	BAJRANG LAL MEENA	30	29
3	221732	ANJALI MEENA	SHOBHAG MAL MEENA	30	29
4	221733	ANKUR NAGAR	RATAN LAL NAGAR	30	28
5	221734	JASWANT RATHORE	PRAKASH CHAND RATHORE	30	29
6	221735	KUSUM MEENA	BRIJ GOPAL MEENA	30	29
7	221736	MAYANK NAMA	JITENDRA NAMA	30	28
8	221737	ROHIT GAUTAM	TIKAM CHAND GAUTAM	30	29
9	221738	SONU SUMAN	OM PRAKASH SUMAN	30	29
10	221739	THAKUR SHARMA	GAJANAND SHARMA	30	29

Signature of External Examiner

Signature of Internal Examiner

Date of Submission.....

23-Aug-2023

SHWETA SAXENA

25.04.2024 10:51



कार्यालय प्राचार्य, माँ भारती पी.जी. कॉलेज, कोटा

महावीर नगर तृतीय सर्किल सेक्टर-8,

कोटा-324005 राजस्थान

ई-मेल-mbpgcollege@yahoo.com

NOTICE

Physics Department

Date- 08-02-23

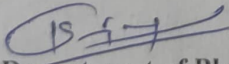
All the Students of M.Sc. (Session 2022-23) are here by informed that the Mid Term I will be held from 13-02-23 To 16-02-23 at 10 AM. Time table along with unit allotted are attached here.

Time Table of Mid Term

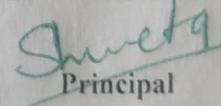
M.Sc. I SEM (Physics)

Time: -10 A.M.

Date	Paper	Unit Allotted
13-02-23	Mathematical Method in Physics	I & II
14-02-23	Classical Mechanics	I & III
15-02-23	Quantum Mechanics	I & II
16-02-23	Advanced Electronics	I & V


Department of Physics

Head of Department
PHYSICS
Maa Bharti P.G. College
Mahaveer Nagar- III, Kota (Raj)


Principal

प्राचार्य
माँ भारती स्नातकोत्तर महाविद्यालय
महावीर नगर तृतीय, कोटा

SHWETA SAXENA

25.04.2024 10:51

Maan Bharti P.G. College, Kota (Raj.)

M.Sc. (Physics)

SEM. = I

SUBJECT = Mathematical Physics

Session = 2022-23

Date - 13-02-23

Q.1) Show that $\int_0^{2\pi} \frac{d\theta}{25-24\cos\theta} = \frac{2\pi}{7}$

Q.2) Define Fourier series and write its advantages.

Q.3) State and prove Cauchy's Residues theorem.

Q.4) Calculate the functions whose Laplace transform is -

$$f(s) = \frac{1}{(s+a)(s+b)}$$

Q.5) State and derive Taylor's series.

MAA BHARTI P.G. COLLEGE, M.N. III , KOTA

MIDTERM ATTENDANCE LIST 2022-23

NAME OF FACULTY		Kirti Soni		
CLASS		M.Sc. I SEMESTER 2022-23		
SUBJECT		PHYSICS (Mathematical method)		
S. N.	STUDENT NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	BHARAT GOYAL	GAJENDRA GOYAL	13-02-23	Bharat
2	GARVITA HADA	PUSHPENDRA SINGH HADA	13/02/23	Garvita
3	SHALU SOLANKI	JAGMOHAN SINGH SOLANKI	13-02-23	Solanki
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UNIVERSITY OF KOTA, KOTA

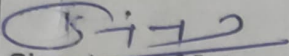
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

11751-M.SC. PHYSICS I-SEMESTER EXAM.DEC.-2022 (NEW SCHEME)

11751-MATHEMATICAL METHODS IN PHYSICS-(INT)

Batch NO: 35949

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	237401	BHARAT GOYAL	GAJENDRA GOYAL	30	29
2	237402	GARVITA HADA	PUSHPENDRA SINGH HADA	30	28
3	237403	SHALU SOLANKI	JAGMOHAN SINGH SOLANKI	30	28



Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

10-Apr-2023

SHWETA SAXENA

25.04.2024 10:51

Maa Bhanthi P.G. College, Kota (Raj.)

M.Sc. (Physics)

SEM. = I

SUBJECT = Classical Mechanics

Session = 2022-23

Date - 14-02-23

Q.1) what are the generalised coordinates?
What is the advantage of using them.

Q.2) Prove that -

$$\sum_{i=1}^{2n} \{U_i, U_j\} [U_i, U_j] = \delta_{ij}$$

where $\{U_i, U_j\}$ is a langrangian and $[U_i, U_j]$ is Poisson bracket.

Q.3) Using ~~f~~ hamiltonien's equations of motion, discuss the motion of a bead sliding on a uniformly rotating wire in a force free space.

Q.4) Derive the relation for forced oscillations under friction.

Q.5) Explain Parametric oscillations.

MAA BHARTI P.G. COLLEGE, M.N. III , KOTA

MIDTERM ATTENDANCE LIST 2022-23

NAME OF FACULTY		Dr. Sapna Sharma.		
CLASS		M.Sc. I SEMESTER 2022-23		
SUBJECT		PHYSICS <i>classical mechanics</i>		
S. N.	STUDENT NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	BHARAT GOYAL	GAJENDRA GOYAL	14-02-23	<i>Bharat</i>
2	GARVITA HADA	PUSHPENDRA SINGH HADA	14/02/23	<i>Garvita</i>
3	SHALU SOLANKI	JAGMOHAN SINGH SOLANKI	14/02/23	<i>Ssolanki</i>
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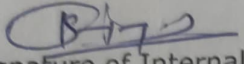
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

11751-M.SC. PHYSICS I-SEMESTER EXAM.DEC.-2022 (NEW SCHEME)
11752-CLASSICAL MECHANICS-(INT)

Batch NO: 35951

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	237401	BHARAT GOYAL	GAJENDRA GOYAL	30	28
2	237402	GARVITA HADA	PUSHPENDRA SINGH HADA	30	29
3	237403	SHALU SOLANKI	JAGMOHAN SINGH SOLANKI	30	28

Signature of External Examiner


Signature of Internal Examiner

Date of Submission.....

10-Apr-2023

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P.h. college, Kota (Raj.)

M.Sc. (Physics)

SEM. = I

SUBJECT = Quantum mechanics - I

Session = 2020-23

Date = 15.02.23

- Q.1) Derive the expressions for the coordinate and momentum representations of the momentum operator.
- Q.2) Explain the Physical significance of wave functions.
- Q.3) Solve Schrodinger equation for a free particle in a box and show that the particle takes discrete energies.
- Q.4) Find the energy eigen value and eigen functions of the matrix :
- $$\hat{H} = \begin{pmatrix} 1 & \epsilon \\ \epsilon & 1 \end{pmatrix}$$
- using the time independent Perturbation Theory.
- Q.5) Write the coordinate representation of angular momentum operators L_x , L_y , L_z and L^2
- Prove the following commutation relations -
- $$[L^2, L_z] = 0 \quad [L_x, L_y] = i\hbar L_z$$

MAA BHARTI P.G. COLLEGE, M.N. III , KOTA

MIDTERM ATTENDANCE LIST 2022-23

NAME OF FACULTY		Dr. Gopal Sir.		
CLASS		M.Sc. I SEMESTER 2022-23		
SUBJECT		PHYSICS (Quantum - I)		
S. N.	STUDENT NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	BHARAT GOYAL	GAJENDRA GOYAL	13/02/23	Bharat
2	GARVITA HADA	PUSHPENDRA SINGH HADA	15/02/23	Garvita
3	SHALU SOLANKI	JAGMOHAN SINGH SOLANKI	15-02-23	Ssolanki
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UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

11751-M.SC. PHYSICS I-SEMESTER EXAM.DEC.-2022 (NEW SCHEME)

11753-QUANTUM MECHANICS-I-(INT)

Batch NO: 35952

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	237401	BHARAT GOYAL	GAJENDRA GOYAL	30	28
2	237402	GARVITA HADA	PUSHPENDRA SINGH HADA	30	28
3	237403	SHALU SOLANKI	JAGMOHAN SINGH SOLANKI	30	29

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

10-Apr-2023

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25.04.2024 10:51

Maa Bharti P.H. College, Kota (Raj.)

M.Sc. (Physics)

SEM - I

SUBJECT = Advanced electronics

Session = 2022-23

Date - 16-02-23

- Q.1) Write down about reflection coefficient.
- Q.2) Write a short note on smith chart.
- Q.3) Write a short note on coaxial lines.
- Q.4) Write difference between θ type and Π type devices.
- Q.5). Explain working of circulator and isolator.

MAA BHARTI P.G. COLLEGE, M.N. III , KOTA

MIDTERM ATTENDANCE LIST 2022-23

NAME OF FACULTY		Dr. Seema Sharma		
CLASS		M.Sc. I SEMESTER 2022-23		
SUBJECT		PHYSICS (Advanced Electronic)		
S. N.	STUDENT NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	BHARAT GOYAL	GAJENDRA GOYAL	16-02-23	Bharat
2	GARVITA HADA	PUSHPENDRA SINGH HADA	16-02-23	Garvita
3	SHALU SOLANKI	JAGMOHAN SINGH SOLANKI	16/02/23	Shobnki
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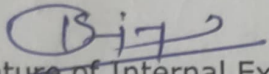
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

11751-M.SC. PHYSICS I-SEMESTER EXAM.DEC.-2022 (NEW SCHEME)

11754-ADVANCED ELECTRONICS-(INT)

Batch NO: 35953

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	237401	BHARAT GOYAL	GAJENDRA GOYAL	30	29
2	237402	GARVITA HADA	PUSHPENDRA SINGH HADA	30	29
3	237403	SHALU SOLANKI	JAGMOHAN SINGH SOLANKI	30	28


Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

10-Apr-2023

SHWETA SAXENA

25.04.2024 10:51



कार्यालय प्राचार्य, माँ भारती पी.जी. कॉलेज, कोटा

महावीर नगर तृतीय सर्किल सेक्टर-8,

कोटा-324005 राजस्थान

ई-मेल-mbpgcollege@yahoo.com

NOTICE

Physics Department

Date-30-06-23

All the Students of M.Sc. (Session 2022-23) are here by informed that the Mid Term I will be held from 5-07-23 To 8-07-23 at 10 AM. Time table along with unit allotted are attached here.

Time Table of Mid Term

M.Sc. II SEM (Physics)

Time: -10 A.M.

Date	Paper	Unit Allotted
5-07-23	Statistical Physics	III & IV
6-07-23	Classical Electrodynamics I	II & III
7-07-23	Quantum Mechanics II	I & II
8-07-23	Atomic & Molecular Physics	I & III

Department of Physics

Head of Department
PHYSICS
Maa P. G. College
Mahaveer Nगर तृतीय सर्किल सेक्टर-8, कोटा (Raj)

Shweta
Principal

माँ भारती प्राचार्य महावीर नगर तृतीय सर्किल सेक्टर-8, कोटा

SHWETA SAXENA

25.04.2024 10:51

Maan Bhandi P.G. College, Kota (Raj.)
M.Sc. (Physics)
SEM. = II

SUBJECT = Statistical Mechanics
Session = 2022-23

Date- 5-07-23

- Q.1) Establish connections between statistical and thermodynamical quantities.
- Q.2) State and prove Liouville's theorem.
- Q.3) What is Gibbs Paradox? How is it resolved?
- Q.4) Discuss Landau theory of phase transition.
- Q.5) Explain validity of classical approximation

MAA BHARTI P.G. COLLEGE , M.N. III KOTA

MIDTERM ATTENDANCE LIST 2022-23

NAME OF FACULTY		Dr. Seema Sharma		
CLASS		M.SC. II SEMESTER 2022-23		
SUBJECT		PHYSICS (Statistical Physics)		
S.N.	STUDENTS NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	BHARAT GOYAL	GAJENDRA GOYAL	5/07/23	Bharat
2	GARVITA HADA	PUSHPENDRA SINGH HADA	5/07/23	Garvita
3	SHALU SOLANKI	JAGMOHAN SINGH SOLANKI	5/07/23	Ssolanki
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UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

11752-M.SC. PHYSICS II-SEMESTER EXAM.-JUNE 2023

11761-STATISTICAL MECHANICS-(INT)

Batch NO: 49680

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	237401	BHARAT GOYAL	GAJENDRA GOYAL	30	29
2	237402	GARVITA HADA	PUSHPENDRA SINGH HADA	30	28
3	237403	SHALU SOLANKI	JAGMOHAN SINGH SOLANKI	30	29

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

23-Aug-2023

SHWETA SAXENA

25.04.2024 10:51

Maan Bhatti P.G. College, Kota (Raj.)

M.Sc. - (Physics)

SEM. = II

SUBJECT = Classical Electrodynamics-I

Session = 2022-23

Date = 6-07-23

- Q.1) Explain surface distribution of charge and discontinuities in the electric field and Potential.
- Q.2) find formal solutions of electrostatic boundary value problem with green's functions.
- Q.3) find Electrostatic energy in dielectric media
- Q.4) find multipole expansions of the energy of a charge distributions in an ~~excited~~ external field.
- Q.5) Write Conservation laws for macroscopic media.

MAA BHARTI P.G. COLLEGE , M.N. III KOTA

MIDTERM ATTENDANCE LIST 2022-23

NAME OF FACULTY		Kirti Jaisi		
CLASS		M.SC. II SEMESTER 2022-23		
SUBJECT		PHYSICS ^{Classical} (Electrodynamics)		
S.N.	STUDENTS NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	BHARAT GOYAL	GAJENDRA GOYAL	06/07/23	Bharat
2	GARVITA HADA	PUSHPENDRA SINGH HADA	06/07/23	Garvita
3	SHALU SOLANKI	JAGMOHAN SINGH SOLANKI	06/07/23	Shalu
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UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

11752-M.SC. PHYSICS II-SEMESTER EXAM.-JUNE 2023

11762-CLASSICAL ELECTRODYNAMICS -I-(INT)

Batch NO: 49681

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	237401	BHARAT GOYAL	GAJENDRA GOYAL	30	28
2	237402	GARVITA HADA	PUSHPENDRA SINGH HADA	30	29
3	237403	SHALU SOLANKI	JAGMOHAN SINGH SOLANKI	30	29

Signature of Internal Examiner

Signature of External Examiner

Date of Submission..... 23-Aug-2023

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P.G. College, Kota (Raj.)

M.Sc. (Physics)

SEM. = II

SUBJECT = Quantum Mechanics - II

Session = 2022-23

Date - 7-07-23

- Q.1) Obtain Phase shift formula to determine scattering cross-sections. State optical theorem and give its physical interpretation.
- Q.2) Define scattering cross-section. Derive Born's formula for scattering cross section.
- Q.3) Deduce Lippmann-Schwinger integral equation.
- Q.4) Explain Dirac "hole theory" to resolve the problem of negative energy solutions.
- Q.5) Determine the scattering cross section for slow particles in a spherical square potential well of depth V_0 and radius a .

MAA BHARTI P.G. COLLEGE , M.N. III KOTA

MIDTERM ATTENDANCE LIST 2022-23

NAME OF FACULTY		Dr. K. L. Galore Sir		
CLASS		M.SC. II SEMESTER 2022-23		
SUBJECT		PHYSICS (Quantum -II)		
S.N.	STUDENTS NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	BHARAT GOYAL	GAJENDRA GOYAL	7/7/23	Bharat
2	GARVITA HADA	PUSHPENDRA SINGH HADA	7/7/23	Garvita
3	SHALU SOLANKI	JAGMOHAN SINGH SOLANKI	7/7/23	Shalun
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UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

11752-M.SC. PHYSICS II-SEMESTER EXAM.-JUNE 2023

11763-QUANTUM MECHANICS-II-(INT)

Batch NO: 49682

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	237401	BHARAT GOYAL	GAJENDRA GOYAL	30	29
2	237402	GARVITA HADA	PUSHPENDRA SINGH HADA	30	28
3	237403	SHALU SOLANKI	JAGMOHAN SINGH SOLANKI	30	29

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

23-Aug-2023

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P.h. College, Kota (Raj.)

M.Sc. (Physics)

SEM. = II

SUBJECT = Atomic and molecular Physics.

Session = 2022-23

Date- 8-07-23

- Q.1) Calculate two possible orientation of spin vector S with respect to magnetic field directions.
- Q.2) Describe the principle and theory of Heitler-London's method for molecules.
- Q.3) With necessary theory, explain the anomalous Zeeman effect.
- Q.4) Calculate Zeeman pattern for transition $3D_3 \longrightarrow 3D_2$.
- Q.5) Explain linear Stark effect for H-atom levels.

MAA BHARTI P.G. COLLEGE , M.N. III KOTA

MIDTERM ATTENDANCE LIST 2022-23

NAME OF FACULTY		Dr. Galore Sir		
CLASS		M.SC. II SEMESTER 2022-23		
SUBJECT		PHYSICS (Atomic & Molecules)		
S.N.	STUDENTS NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	BHARAT GOYAL	GAJENDRA GOYAL	8/7/23	Bharat
2	GARVITA HADA	PUSHPENDRA SINGH HADA	8/7/23	Garvita
3	SHALU SOLANKI	JAGMOHAN SINGH SOLANKI	8/7/23	Shalanki
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UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

11752-M.SC. PHYSICS II-SEMESTER EXAM.-JUNE 2023

11764-ATOMIC AND MOLECULAR PHYSICS-(INT)

Batch NO: 49683

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	237401	BHARAT GOYAL	GAJENDRA GOYAL	30	29
2	237402	GARVITA HADA	PUSHPENDRA SINGH HADA	30	29
3	237403	SHALU SOLANKI	JAGMOHAN SINGH SOLANKI	30	29

Signature of Internal Examiner

Signature of External Examiner

Date of Submission.....

23-Aug-2023

SHWETA SAXENA

25.04.2024 10:51



Maa Bharti P. G. College, Kota

Mahaveer Nagar III, Sector-8
Kota 324005-, Rajasthan
E-mail-mbpgcollege@yahoo.com

NOTICE

Ref. No.:

Date: 12.07.22

All students of M.Sc. Zoology II and IV Semester are informed that their first midterm exam will commence from 19th July 2022. Students should be regular during mid-term exams. Mid-term exam Time-Table is as follows:

Mid-Term I M.Sc. Sem. II

Time: 9:00 a.m.

Date	Paper
19 th July 2022	Immunology and Biotechnology
20 th July 2022	Animal Taxonomy
21 st July 2022	Genetics
22 nd July 2022	Animal Physiology

M.Sc. Sem. IV

Time: 9:00 a.m.

Date	Paper
19 th July 2022	Animal Behaviour
20 th July 2022	Developmental Biology of Chordates
21 st July 2022	Special Paper- Fish Biology I
22 nd July 2022	Special Paper- Fish Biology II

Sushma
Department of Zoology
Head of Department
ZOOLOGY
Maa Bharti P. G. College
Mahaveer Nagar-III, Kota (Raj.)



Shweta Saxena
Principal
मौ भारती स्नातकोत्तर महाविद्यालय
महावीर नगर तृतीय, कोटा

SHWETA SAXENA

25.04.2024 10:51



Maa Bharti P. G. College, Kota

Mahaveer Nagar III, Sector-8
Kota 324005-, Rajasthan
E-mail-mbpgcollege@yahoo.com

NOTICE

Ref. No.:

Date: 16th August 2022

All students of M.Sc. Zoology II and IV Semester are informed that their first midterm exam will commence from 22nd August 2022. Students should be regular during mid-term exams. Mid-term exam Time-Table is as follows:

Mid-Term II
M.Sc. Sem. II

Time: 9:00 a.m.

Date	Paper
22 nd August 2022	Immunology and Biotechnology
23 rd August 2022	Animal Taxonomy
24 th August 2022	Genetics
25 th August 2022	Animal Physiology

M.Sc. Sem. IV

Time: 9:00 a.m.

Date	Paper
22 nd August 2022	Animal Behaviour
23 rd August 2022	Developmental Biology of Chordates
24 th August 2022	Special Paper- Fish Biology I
25 th August 2022	Special Paper- Fish Biology II

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Department of Zoology
Head of Department
ZOOLOGY
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Shweta Saxena
Principal
प्राचार्य
मी भारती स्नातकोत्तर महाविद्यालय
महावीर नगर तृतीय, कोटा

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MAA BHARTI P.G. COLLEGE

M.Sc. - II Semester

ZOOLOGY (PAPER-I) IMMUNOLOGY

mid term - I

Total marks: 15

Each question carries 1 Marks

- Q.1. what do you mean by Immunology?
- Q.2. Name the cells of Immune system
- Q.3. what are Killer T Cells?
- Q.4. what is Third line of defence?
- Q.5. what are haptens?

Each question carries 2½ marks -

- Q.6. write short note on -
a) Antigen b) Antibody
- Q.7. what do you mean by antigen-antibody reaction?

Each question carries 5 marks. -

- Q.7. write a detailed note on Immune system.
(Hint) Cells, Systems, factors & function)

Maa Bhatti P.G. College, Kota
Mid term Examination - II
M.Sc. IInd Sem: Immunology & Biotechnology
Max. marks (15 marks)

II

Attempt all the questions. (1 mark each)

- Q.1) What is superantigen? सुपरएंटीजन क्या है?
- Q.2) Define haptens. हेटेन्स को परिभाषित कीजिए।
- Q.3) Define complement proteins? कॉम्प्लिमेंट प्रोटीन्स को परिभाषित कीजिए।
- Q.4) Define cytokines. साइटोकाइन्स को परिभाषित कीजिए।
- Q.5) Give an example of type-II Hypersensitivity. टाइप-II हाइपरसेन्सिटिविटी का उदाहरण दीजिए।

Attempt any two questions (2.5 mark each)
कोई दो प्रश्न हल कीजिए (प्रत्येक का 2.5 marks है)

- Q.6) Differentiate innate & acquired immunity.
इन्नेट एवं अक्वायर्ड प्रतिरक्षा में अन्तर बताइए।
- Q.7) Explain the MHC complex.
MHC complex को समझाइए।
- Q.8) Explain the factors influencing immunogenicity.
उन कारकों को समझाइए जो इम्युनोजेनिविटी को प्रभावित करते हैं।

Attempt any two questions (5 marks each)
कोई एक प्रश्न हल कीजिए (प्रत्येक 5 marks का है)

- Q.9) Give a detailed note on structure and functions of antibodies.
एंटीबॉडी के आकार व कार्य पर वृहद टिप्पणी दीजिए।
- Q.10) Give a detailed note on T-cell and B-cell generation, activation & differentiation.
T-cell एवं B-cell की उत्पत्ति, सक्रियण एवं विभजन पर वृहद टिप्पणी दीजिए।



UNIVERSITY OF KOTA, KOTA
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA
86002-M.Sc. ZOOLOGY SEM.-II EXAM - 2021

8610-IMMUNOLOGY AND BIOTECHNOLOGY-(INT)					BATCH NO : 15284	MAX MARKS : 30
Sr.No.	Roll No.	Name	Father's Name	Category	Signature of Candidate	
1	223491	BHUPENDRA SAINI	DEEPAK KUMAR SAINI	REGULAR	Bhupendra	
2	223492	GOVIND VERMA	RAM LAL VERMA	REGULAR	Govind	
3	223493	HARSITA JANGID	RAMKARAN JANGID	REGULAR	Harsita	
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5	223495	KALPANA MAHAWAR	BABULAL MAHAWAR	REGULAR	Kalpana	
6	223496	KOMAL NAGAR	SURESH NAGAR	REGULAR	Komal	
7	223497	MAHIPAL GURJAR	MALARAM GURJAR	REGULAR	Mahipal Gurjar	
8	223498	MONIKA RATHOD	DHARMENDRA RATHOD	REGULAR	Monika	
9	223499	NANDANI MEHRA	VIJENDRA MEHRA	REGULAR	Nandani	
10	223500	NICHWANI JYOTI RAMCHAND	RAMCHAND NICHWANI	REGULAR	Jyoti	
11	223501	POOJA SHARMA	PAWAN SHARMA	REGULAR	Pooja	
12	223502	PRAVEEN PRAJAPAT	SARIKISHAN PRAJAPAT	REGULAR	Praveen	
13	223504	RAVI KUMAR BAIRWA	BABU LAL BAIRWA	REGULAR	Ravi Kumar Bairwa	
14	223505	SALONI TIWARI	PAWAN KUMAR TIWARI	REGULAR	Saloni Tiwari	
15	223506	SAPNA LODHA	RAJESH VERMA	REGULAR	Sapna	
16	223507	SONAL NAGAR	RAMESHWAR NAGAR	REGULAR	Sonali Nagar	
17	223508	VAISHALI CHOUDHARY	JASWANT SINGH	REGULAR	Vaishali Choudhary	
18	223509	VIPRA JAIN	PARAS KUMAR JAIN	REGULAR	Vipra Jain	

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 CDr. Sushma Agrawal

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**UNIVERSITY OF KOTA, KOTA****11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA****86002-M.Sc. ZOOLOGY SEM.-II EXAM - 2022
8610-IMMUNOLOGY AND BIOTECHNOLOGY-(INT)****Batch NO: 15284**

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223491	BHUPENDRA SAINI	DEEPAK KUMAR SAINI	30	28
2	223492	GOVIND VERMA	RAM LAL VERMA	30	26
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17	223508	VAISHALI CHOUDHARY	JASWANT SINGH	30	26
18	223509	VIPRA JAIN	PARAS KUMAR JAIN	30	27

Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner
DR. SUSHMA AGRAWAL

29-Sep-2022

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25.04.2024 10:51

MSc. - Zoology
Semester - II
PAPER II - TAXONOMY -

Marks: 15
TIME: 1 hour

Page No.	
Date	/ /

mid term - I

Each Question carries 1 marks:- (5)

- Q.1. what do you mean by classification
- Q.2. what is Linnean hierarchy?
- Q.3. who is father of Taxonomy?
- Q.4. what is the scope of Taxonomy?
- Q.5. what is Biological classification?

Each question carries 2½ marks (5)

- Q.6. Describe Different rules of nomenclature
- Q.7. write a short note on Different stages of Taxonomy.

Each question carries 5 marks (5)

- Q.8. write a note on principles of classification.

SHWETA SAXENA

Teacher's Signature.....

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Maa Bhatti P.G. College
Internal Assessment - IInd
M.Sc. IInd Sem

Paper II: Taxonomy

Time: 1hr.

Marks: 15

Part A: Attempt all questions.

- Q.1) What is the typological species concept? (1)
- Q.2) Define superspecies. (1)
- Q.3) Difference between bone & cartilaginous fishes with example. (1)
- Q.4) Difference between ratatae & carinatae. (1)
- Q.5) Give two examples of monotremata. (1)

Part B: Attempt any two questions.

- Q.6) Give general characters & classification of class, "Amphibia". (2.5)
- Q.7) Explain the identification process of any specimen. (2.5)
- Q.8) Explain the intraspecific categories. (2.5)

Part C: Attempt any one.

- Q.9) Describe "Reptilia" - general characters & classification upto order, with suitable examples. (5)
- Q.10) Explain the taxonomic collection process in detail. (5)



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

86002-M.Sc. ZOOLOGY SEM.-II EXAM - 2021

8611-ANIMAL TAXONOMY-(INT)				BATCH NO : 15286	MAX MARKS : 30
Sr.No.	Roll No.	Name	Father's Name	Category	Signature of Candidate
1	223491	BHUPENDRA SAINI	DEEPAK KUMAR SAINI	REGULAR	Bhupendra
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18	223509	VIPRA JAIN	PARAS KUMAR JAIN	REGULAR	Vipra Jain

Sushma
(external)
CDr. Sushma Agrawal

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25.04.2024 10:51

**UNIVERSITY OF KOTA, KOTA****11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA****86002-M.Sc. ZOOLOGY SEM.-II EXAM - 2022****8611-ANIMAL TAXONOMY-(INT)****Batch NO: 15286**

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
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Signature of Internal Examiner

Date of Submission.....



Sushma
Signature of External Examiner
DR. SUSHMA AGRAWAL

29-Sep-2022

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Maa Bharti P h College, Kota
Department of Zoology

MSc II Semester

Mid Term Exam I - 2022

Sub: Genetics

Duration

max
marks 15

Q.1 write short Note on

- (a) complimentary genes
- (b) multiple alleles
- (c) Epistasis

Q.2 Explain linkage in detail?

Q.3 write short Note on

- (a) Down Syndrome
- (b) Klinefelter Syndrome
- (c) Eugenetics.

Ma Bharti P G College Kota
Department of Zoology
Mid Term Exam - 2022

Paper - II - Genetics

Max. Marks - 15.

Time : 1 hour.

Very short Answer type Questions

- Q.1 Define gene?
- Q.2 what are haploid and diploid?
- Q.3 what are autosomes?
- Q.4 what are homologous chromosomes?
- Q.5 Define genotype and phenotype?

Short type Answer type Questions.

- Q.1 Differentiate homozygous, heterozygous and hemizygous?
- Q.2 Explain Test cross and back cross?

Long answer type Question

- Q.1 Explain monohybrid and Dihybrid cross with example?



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11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

86002-M.Sc. ZOOLOGY SEM.-II EXAM - 2021

8612-GENETICS-(INT)				BATCH NO : 15287	MAX MARKS : 30
Sr.No.	Roll No.	Name	Father's Name	Category	Signature of Candidate
1	223491	BHUPENDRA SAINI	DEEPAK KUMAR SAINI	REGULAR	Bhupendra
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13	223504	RAVI KUMAR BAIRWA	BABU LAL BAIRWA	REGULAR	रवि कुमार बैरवा
14	223505	SALONI TIWARI	PAWAN KUMAR TIWARI	REGULAR	Salonitiwari
15	223506	SAPNA LODHA	RAJESH VERMA	REGULAR	Sapna
16	223507	SONAL NAGAR	RAMESHWAR NAGAR	REGULAR	Sonal Nagar
17	223508	VAISHALI CHOUDHARY	JASWANT SINGH	REGULAR	वैशाली चौधरी
18	223509	VIPRA JAIN	PARAS KUMAR JAIN	REGULAR	Vipra Jain

Sushma
(external)

(Dr. Sushma Aggarwal)

SHWETA SAXENA

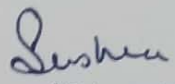
**UNIVERSITY OF KOTA, KOTA****11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA****86002-M.Sc. ZOOLOGY SEM.-II EXAM - 2022****8612-GENETICS-(INT)****Batch NO: 15287**

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
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Signature of Internal Examiner

Date of Submission.....




Signature of External Examiner
DR. SUSHMA AGRAWAL

29-Sep-2022

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Maa Bharti P.G. college, Kota

M.Sc. Semester - II

Paper - IV - Physiology.

Mid term test - I

Time - 1 hour

Marks - 15.

Q.1. Define Digestion

Q.2. Distinguish between the bolus, chyme & chyle

Q.3. Difference between Aerobic & Anaerobic respiration.

Q.4. Define chloride shift.

Q.5. Define Haemostasis

Q.6. Write short notes on any two.

(A) Oxygen haemoglobin dissociation curve

(B) Cardiac cycle.

(C) Blood pressure.

Q.7. Describe the Absorption of various food material in Alimentary canal.
on.

Describe the mechanism of Blood clotting & various factors of blood clotting in mammals.

III Semester
Maa Bharti P G College, Kola

Department of Zoology

MSc II Semester : 2022

Mid Term Exam II

Sub: Physiology

Max Marks

15

Duration

- Q.1 Explain nephron structure and explain urine formation?
- Q.2 Explain osmoregulation in aquatic and terrestrial environment?
- Q.3 what is blood clotting explain its fact and mechanism?

UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

86002-M.Sc. ZOOLOGY SEM.-II EXAM - 2021

S613-ANIMAL PHYSIOLOGY-(INT)

BATCH NO : 15289

MAX MARKS :
30

Sr.No.	Roll No.	Name	Father's Name	Category	Signature of Candidate
1	223491	BHUPENDRA SAINI	DEEPAK KUMAR SAINI	REGULAR	Bhupendra
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(Sushma)
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(Dr. Sushma Aggarwal)

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25.04.2024 10:51

**UNIVERSITY OF KOTA, KOTA****11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA****86002-M.Sc. ZOOLOGY SEM.-II EXAM - 2022****8613-ANIMAL PHYSIOLOGY-(INT)****Batch NO: 15289**

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223491	BHUPENDRA SAINI	DEEPAK KUMAR SAINI	30	27
2	223492	GOVIND VERMA	RAM LAL VERMA	30	26
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12	223502	PRAVEEN PRAJAPAT	SARIKISHAN PRAJAPAT	30	26
13	223504	RAVI KUMAR BAIRWA	BABU LAL BAIRWA	30	26
14	223505	SALONI TIWARI	PAWAN KUMAR TIWARI	30	27
15	223506	SAPNA LODHA	RAJESH VERMA	30	28
16	223507	SONAL NAGAR	RAMESHWAR NAGAR	30	27
17	223508	VAISHALI CHOUDHARY	JASWANT SINGH	30	26
18	223509	VIPRA JAIN	PARAS KUMAR JAIN	30	28

Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner
DR. SUSHMA AGRAWAL

29-Sep-2022

SHWETA SAXENA

25.04.2024 10:51

Maa Bharti P.G. College
Internal Assessment - **I**nd
Paper - I Animal Behaviour
M.Sc. IVth sem

Time : 1 hr.

marks : 15

Part A: Attempt all questions

- Q.1) What is olfactory signals, give an example. (1)
- Q.2) What is acoustic signals, give an example. (1)
- Q.3) What is dominance in animal behaviour. (1)
- Q.4) Two benefits of territorial behaviour? (1)
- Q.5) Explain homing behaviour. (1)

Part B: Attempt any two questions

- Q.6) Write a short note on primate societies. (2.5)
- Q.7) Write a short note on aggression. (2.5)
- Q.8) Explain reproductive behaviour in Stickle back fish. (2.5)

Part C : Attempt any one question

- Q.9) Explain behaviour in insects in detail. (5)
- Q.10) Write a detailed note on behaviours of domestic & zoo animals. (5)

M.Sc. IVth Sem
Mid Term - Ist
Paper : Animal B

1 Attempt all questions (one mark each)

- Q.1) Define ethology.
- Q.2) Define taxes with one example.
- Q.3) What is habituation? give one example.
- Q.4) Define instinctive behaviours.
- Q.5) Give one example of chemical communication.

Attempt any two questions (2.5 marks each)

- Q.6) Give a note on trial & error and latent learning.
- Q.7) Explain imprinting.
- Q.8) Give a note on hormones & behavior.

Attempt ^{one} ~~any~~ question (5 marks)

- Q.9) Explain instinctive behaviours and its types in detail.
- Q.10) Explain learned behaviours and its types in detail.

UNIVERSITY OF KOTA, KOTA					
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA					
86004-M.Sc. ZOOLOGY SEM.-IV EXAM - 2021					
8640-ANIMAL BEHAVIOR-(INT)				BATCH NO : 15346	MAX MARKS : 30
Sr.No.	Roll No.	Name	Father's Name	Category	Signature of Candidate
1	214191	ANTIMA VERMA	PRAHALAD VERMA	REGULAR	Antima Verma
2	214192	ANUSHKA GOUTAM	MAHAVEER GOUTAM	REGULAR	Anushka
3	214194	AYUSHI NAGAR	RAGHUVeer NAGAR	REGULAR	Ayushi Nagar
4	214195	BHAGYA SHREE HADA	NARENDRA SINGH	REGULAR	Bhagyashree
5	214196	CHIRAG NAGAR	NAVAL KISHOR NAGAR	REGULAR	Chirag Nagar
6	214197	DEEPSHIKHA PANCHAL	JAGDISH PANCHAL	REGULAR	DEEPSHIKHA
7	214198	GOLU VERMA	BHAGVAN DAS VERMA	REGULAR	Golu Verma
8	214201	KOMAL DHAKAD	SHIVJI SINGH DHAKAD	REGULAR	Komal
9	214203	MAHENDRAMEENA	HARI RAM MEENA	REGULAR	Mahendra
10	214204	MANISH MEENA	RAM PRATAP MEENA	REGULAR	Manish
11	214206	NITIN RAJPOOT	MAHAVEER RAJPOOT	REGULAR	Nitin
12	214207	NITIN SINGH JADOUN	VIJAY SINGH	REGULAR	Nitin
13	214208	PENIL SONI	SURENDRA SONI	REGULAR	Penil
14	214210	RAVINA SAINI	LOKESH KUMAR SAINI	REGULAR	Ravina Saini
15	214211	YOGITA KUMARI NAGAR	DHARMENDRA KUMAR NAGAR	REGULAR	Yogita
16	214193	ASHISH MEENA	ARJUN MEENA	EX-STUDENT	Ashish
17	214199	JITENDRA MEENA	RAM PRATAP MEENA	EX-STUDENT	Jitendra
18	214200	JYOTI RAY	NARESH RAY	EX-STUDENT	Jyoti Ray
19	214202	LAXMAN SINGH MEHTA	RAGHUVeer SINGH MEHTA	EX-STUDENT	Laxman
20	214205	NIKITA SHILLA	VIKRAM SINGH SHILLA	EX-STUDENT	Nikita

Sushma
External
(Dr. Sushma Aggarwal)

Internal



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

86004-M.Sc. ZOOLOGY SEM.-IV EXAM - 2022

8640-ANIMAL BEHAVIOR-(INT)

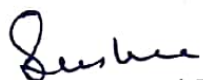
Batch NO: 15346

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
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12	214202	LAXMAN SINGH MEHTA	RAGHUVeer SINGH MEHTA	30	26
13	214203	MAHENDRAMEENA	HARI RAM MEENA	30	20
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16	214206	NITIN RAJPOOT	MAHAVEER RAJPOOT	30	28
17	214207	NITIN SINGH JADOUN	VIJAY SINGH	30	27
18	214208	PENIL SONI	SURENDRA SONI	30	22
19	214210	RAVINA SAINI	LOKESH KUMAR SAINI	30	27
20	214211	YOGITA KUMARI NAGAR	DHARMENDRA KUMAR NAGAR	30	26

Signature of Internal Examiner

Date of Submission.....




Signature of External Examiner
DR. SUSHMA AGRAWAL

29-Sep-2022

SHWETA SAXENA

25.04.2024 10:51

Maan Bharti P. G. College, Kota
Department of Zoology
MSc IV Semester
Midterm Exam II 2022

Sub: Developmental
Biology

Duration

max marks
15

- Q.1 Explain different types of morphogenetic movements in gastrulation. write down its significance?
- Q.2 Describe embryonic induction and organizers?
- Q.3 Explain organogenesis with example (eye/brain) with diagrammes?.

Mera Bharti P.G. college
M.Sc. semester - IV
Paper - II Development biology
mid term - II

Time - 1 hour

marks - 15.

- Q.1. Give name of different type of planes of cleavage.
- Q.2. Name any two organism in which determinate cleavage is found.
- Q.3. What is induction.
- Q.4. Define fate maps. & its significance
- Q.5. What is competence.
- Q.6. Write short notes on any two.
- (a) pattern of cleavage
 - (b) morphogenetic movement in gastrulation
 - (c) organizers.
- Q.7. Explain the process of gastrulation & its significance.
or
Write an essay on organogenesis

UNIVERSITY OF KOTA, KOTA					
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA					
86004-M.Sc. ZOOLOGY SEM.-IV EXAM - 2021					
8641-DEVELOPMENTAL BIOLOGY OF CHORDATES-(INT)				BATCH NO : 15347	MAX MARKS : 30
Sr.No.	Roll No.	Name	Father's Name	Category	Signature of Candidate
1	214191	ANTIMA VERMA	PRAHALAD VERMA	REGULAR	Antima Verma
2	214192	ANUSHKA GOUTAM	MAHAVEER GOUTAM	REGULAR	Anushka
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4	214195	BHAGYA SHREE HADA	NARENDRA SINGH	REGULAR	Bhagya
5	214196	CHIRAG NAGAR	NAVAL KISHOR NAGAR	REGULAR	Chirag Nagar
6	214197	DEEPSHIKHA PANCHAL	JAGDISH PANCHAL	REGULAR	DEEPSHIKHA
7	214198	GOLU VERMA	BHAGVAN DAS VERMA	REGULAR	Golu Verma
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10	214204	MANISH MEENA	RAM PRATAP MEENA	REGULAR	Manish
11	214206	NITIN RAJPOOT	MAHAVEER RAJPOOT	REGULAR	Nitin
12	214207	NITIN SINGH JADOUN	VIJAY SINGH	REGULAR	Nitin
13	214208	PENIL SONI	SURENDRA SONI	REGULAR	Penil
14	214210	RAVINA SAINI	LOKESH KUMAR SAINI	REGULAR	Ravina Saini
15	214211	YOGITA KUMARI NAGAR	DHARMENDRA KUMAR NAGAR	REGULAR	Yogita
16	214193	ASHISH MEENA	ARJUN MEENA	EX-STUDENT	Ashish
17	214199	JITENDRA MEENA	RAM PRATAP MEENA	EX-STUDENT	Jitendra
18	214200	JYOTI RAY	NARESH RAY	EX-STUDENT	Jyoti Ray
19	214202	LAXMAN SINGH MEHTA	RAGHUVeer SINGH MEHTA	EX-STUDENT	Laxman
20	214205	NIKITA SHILLA	VIKRAM SINGH SHILLA	EX-STUDENT	Nikita

Sushma
External
(Dr. Sushma Agrawal)



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

86004-M.Sc. ZOOLOGY SEM.-IV EXAM - 2022

8641-DEVELOPMENTAL BIOLOGY OF CHORDATES-(INT)

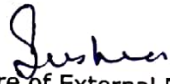
Batch NO: 15347

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19	214210	RAVINA SAINI	LOKESH KUMAR SAINI	30	27
20	214211	YOGITA KUMARI NAGAR	DHARMENDRA KUMAR NAGAR	30	28

Signature of Internal Examiner

Date of Submission.....




Signature of External Examiner
DR. SUSHMA AGRAWAL

29-Sep-2022

SHWETA SAXENA

25.04.2024 10:51

M.Sc. ZOOLOGY
SEMESTER - IV

PAPER :- FISH BIOLOGY - I (3)

mid term - I

100 marks. 1 hr
TIME: 1 hr

Page No.

Date

Each Question Carries 1 marks:- (5)

- Q1. What do you mean by Indian fishery?
- Q2. Give the classification of Prasin.
- Q3. What are exotic fishes? name 2 Exotic species.
- Q4. What is the importance of Bombay duck fishery.
- Q5. Give 2 example of Inshore & offshore fishery.

Each Question carries 2½ marks:- (5)

- Q6. Describe Biology of -
 - a) oil sardine
 - b) Oyster
- Q7. Describe 1 Exotic Species briefly

Each Question carries 5 marks - (5)

- Q8. Name the different fisheries of India also describe them briefly.

SHWETA SAXENA

Teacher's Signature 25/04/2024 10:51.....

University of Kala
Department of Zoology
Semester - II - Fish biology
Mid term - II

Time - 1 hour

Marks - 15.

- Q.1 Define carrying capacity of a pond. (1)
- Q.2 Difference between Extensive & Intensive fish culture. (1)
- Q.3 What is cultivable species, give two examples. (1)
- Q.4 Difference between fishing craft & fishing gear. (1)
- Q.5 Define Rigor mortis. (1)
- Q.6 Write short notes any two of this. $2\frac{1}{2} \times 2\frac{1}{2}$
- (a) Induced breeding.
 - (b) By product of fishing industry.
 - (c) Types of net
- Q.7 What is Inland fisheries, explain Revenue fisheries of Orissa & Brahmaputra. (5)
- or
- Describe Estuarine fisheries, type, & its importance with example.



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

86004-M.Sc. ZOOLOGY SEM.-IV EXAM - 2021

8645-FISH BIOLOGY-(INT)				BATCH NO : 15349	MAX MARKS : 30
Sr.No.	Roll No.	Name	Father's Name	Category	Signature of Candidate
1	214191	ANTIMA VERMA	PRAHALAD VERMA	REGULAR	Antima Verma
2	214192	ANUSHKA GOUTAM	MAHAVEER GOUTAM	REGULAR	Anushka
3	214194	AYUSHI NAGAR	RAGHUVeer NAGAR	REGULAR	Ayushi Nagar
4	214195	BHAGYA SHREE HADA	NARENDRA SINGH	REGULAR	Bhagyaa
5	214196	CHIRAG NAGAR	NAVAL KISHOR NAGAR	REGULAR	Chirag Nagar
6	214197	DEEPSHIKHA PANCHAL	JAGDISH PANCHAL	REGULAR	DEEPSHIKHA
7	214198	GOLU VERMA	BHAGVAN DAS VERMA	REGULAR	Golu Verma
8	214201	KOMAL DHAKAD	SHIVJI SINGH DHAKAD	REGULAR	Komal
9	214203	MAHENDRAMEENA	HARI RAM MEENA	REGULAR	Maheeta
10	214204	MANISH MEENA	RAM PRATAP MEENA	REGULAR	Manish
11	214206	NITIN RAJPOOT	MAHAVEER RAJPOOT	REGULAR	Nitin
12	214207	NITIN SINGH JADOUN	VIJAY SINGH	REGULAR	Nitin
13	214208	PENIL SONI	SURENDRA SONI	REGULAR	Penil
14	214210	RAVINA SAINI	LOKESH KUMAR SAINI	REGULAR	Ravina Saini
15	214211	YOGITA KUMARI NAGAR	DHARMENDRA KUMAR NAGAR	REGULAR	Yogita
16	214193	ASHISH MEENA	ARJUN MEENA	EX-STUDENT	Ashish
17	214199	JITENDRA MEENA	RAM PRATAP MEENA	EX-STUDENT	Jitendra
18	214200	JYOTI RAY	NARESH RAY	EX-STUDENT	Jyoti Ray
19	214202	LAXMAN SINGH MEHTA	RAGHUVeer SINGH MEHTA	EX-STUDENT	Laxmi
20	214205	NIKITA SHILLA	VIKRAM SINGH SHILLA	EX-STUDENT	Nikita

Sesha
External
(Dr. Sesha Aggarwal)

**UNIVERSITY OF KOTA, KOTA****11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA****86004-M.Sc. ZOOLOGY SEM.-IV EXAM - 2022****8645-FISH BIOLOGY-(INT)****Batch NO: 15349**

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	214191	ANTIMA VERMA	PRAHALAD VERMA	30	27
2	214192	ANUSHKA GOUTAM	MAHAVEER GOUTAM	30	28
3	214193	ASHISH MEENA	ARJUN MEENA	30	21
4	214194	AYUSHI NAGAR	RAGHUVeer NAGAR	30	28
5	214195	BHAGYA SHREE HADA	NARENDRA SINGH	30	27
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10	214200	JYOTI RAY	NARESH RAY	30	27
11	214201	KOMAL DHAKAD	SHIVJI SINGH DHAKAD	30	27
12	214202	LAXMAN SINGH MEHTA	RAGHUVeer SINGH MEHTA	30	25
13	214203	MAHENDRAMEENA	HARI RAM MEENA	30	21
14	214204	MANISH MEENA	RAM PRATAP MEENA	30	27
15	214205	NIKITA SHILLA	VIKRAM SINGH SHILLA	30	21
16	214206	NITIN RAJPOOT	MAHAVEER RAJPOOT	30	27
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18	214208	PENIL SONI	SURENDRA SONI	30	22
19	214210	RAVINA SAINI	LOKESH KUMAR SAINI	30	27
20	214211	YOGITA KUMARI NAGAR	DHARMENDRA KUMAR NAGAR	30	27

Signature of Internal Examiner

Date of Submission.....



Sushma
Signature of External Examiner
DR. SUSHMA AGRAWAL

29-Sep-2022

SHWETA SAXENA

25.04.2024 10:51

mao Bhathi P.G. college

Department of Zoology.

M.Sc. IV semester

Paper ZC191 - Fish Biology-II

mid term - I

Time 1 hour

marks-15.

- Q.1. Define population density. (1)
- Q.2. Define Limnology & give its example. (1)
- Q.3. What are plankton & its importance (1)
- Q.4. What do you understand by fisheries management (1)
- Q.5. Difference between genetic & ecological diversity (1)
- Q.6. Short notes on.
- (A) scale method for age determination. $2\frac{1}{2}$
of fishes.
- (B) Fish conservation method. $2\frac{1}{2}$
- Q.7. Describe the methods for estimation of fish population. (5)

University of Kota
Department of Zoology
Semester - IV : Fish Biology - II

mid term - II

Time - 1 hour

marks - 15

- Q.1. Define polyploidy, give its type. (1)
- Q.2. What is hybridization, give two examples. (1)
- Q.3. Difference between gynogenesis and androgenesis (1)
- Q.4. Difference between poisonous & venomous fishes, explain with suitable examples. (1)
- Q.5. Define water pollution. (1)
- Q.6. Write short notes of any two. $2\frac{1}{2} + 2\frac{1}{2}$
- (a) water pollution by thermal waste & oil & its effect on fish.
 - (b) Aquatic weeds
 - (c) Hill stream Adaptation
- Q.7. Write an essay of Electric organs in fishes. (5)



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

86004-M.Sc. ZOOLOGY SEM.-IV EXAM - 2021

8651-FISH BIOLOGY-(INT)				BATCH NO : 15352	MAX MARKS : 30
Sr.No.	Roll No.	Name	Father's Name	Category	Signature of Candidate
1	214191	ANTIMA VERMA	PRAHALAD VERMA	REGULAR	Antima Verma
2	214192	ANUSHKA GOUTAM	MAHAVEER GOUTAM	REGULAR	Anushka
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4	214195	BHAGYA SHREE HADA	NARENDRA SINGH	REGULAR	Bhagya
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13	214208	PENIL SONI	SURENDRA SONI	REGULAR	Penil
14	214210	RAVINA SAINI	LOKESH KUMAR SAINI	REGULAR	Ravina Saini
15	214211	YOGITA KUMARI NAGAR	DHARMENDRA KUMAR NAGAR	REGULAR	Yogita
16	214193	ASHISH MEENA	ARJUN MEENA	EX-STUDENT	Ashish
17	214199	JITENDRA MEENA	RAM PRATAP MEENA	EX-STUDENT	Jitendra
18	214200	JYOTI RAY	NARESH RAY	EX-STUDENT	Jyoti Ray
19	214202	LAXMAN SINGH MEHTA	RAGHUVeer SINGH MEHTA	EX-STUDENT	Laxman
20	214205	NIKITA SHILLA	VIKRAM SINGH SHILLA	EX-STUDENT	Nikita

Sushma
External
(On Sushma Agarwal)



UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

86004-M.Sc. ZOOLOGY SEM.-IV EXAM - 2022

8651-FISH BIOLOGY-(INT)

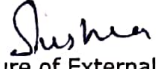
Batch NO: 15352

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	214191	ANTIMA VERMA	PRAHALAD VERMA	30	26
2	214192	ANUSHKA GOUTAM	MAHAVEER GOUTAM	30	27
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Signature of Internal Examiner

Date of Submission.....




Signature of External Examiner
DR. SUSHMA AGRAWAL

29-Sep-2022

SHWETA SAXENA

25.04.2024 10:51



Maa Bharti P. G. College, Kota

Mahaveer Nagar III, Sector-8

Kota 324005-, Rajasthan

E-mail-mbpgcollege@yahoo.com

NOTICE

Ref. No.:

Date: 10.11.22

All students of M.Sc. Zoology I and III Semester are informed that their first midterm exam will commence from 18th November 2022. Students should be regular during mid-term exams. Mid-term exam Time-Table is as follows:

Mid-Term I

M.Sc. Sem. I

Time: 9:00 a.m.

Date	Paper
18 th November 2022	Invertebrate Structure and Function
19 th November 2022	Biochemistry
21 st November 2022	Cell Biology
22 nd November 2022	Evolution and Biostatistics

M.Sc. Sem. III

Time: 9:00 a.m.

Date	Paper
18 th November 2022	Chordata
19 th November 2022	Animal Ecology
21 st November 2022	Special Paper- Fish Biology I
22 nd November 2022	Special Paper- Fish Biology II

Sushma

Department of Zoology

Head of Department

ZOOLOGY

Maa Bharti P. G. College

Mahaveer Nagar-III, Kota (Raj.)

Sham



Shweta Saxena
Principal

मौ भारती स्नातकोत्तर महाविद्यालय
महावीर नगर तृतीय, कोटा

SHWETA SAXENA

25.04.2024 10:51



Maa Bharti P. G. College, Kota

Mahaveer Nagar III, Sector-8

Kota-324005, Rajasthan

E-mail-mbpgcollege@yahoo.com

NOTICE

Ref. No.:

Date: 13.2.2023

All students of M.Sc. Zoology I and III Semester are informed that their first midterm exam will commence from 20th February 2023. Students should be regular during mid-term exams. Mid-term exam Time-Table is as follows:

Mid-Term II

M.Sc. Sem. I

Time: 9:00 a.m.

Date	Paper
20 th February 2023	Invertebrate Structure and Function
21 st February 2023	Biochemistry
22 nd February 2023	Cell Biology
23 rd February 2023	Evolution and Biostatistics

M.Sc. Sem. III

Time: 9:00 a.m.

Date	Paper
20 th February 2023	Chordata
21 st February 2023	Animal Ecology
22 nd February 2023	Special Paper- Fish Biology I
23 rd February 2023	Special Paper- Fish Biology II

Sushma
Department of Zoology
Head of Department
ZOOLOGY
Maa Bharti P. G. College
Mahaveer Nagar-III, Kota (Ra.)



Shweta Saxena
Principal
प्रधान्या
मौ भारती स्नातकोत्तर महाविद्यालय
महावीर नगर तृतीय, कोटा

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Each question carries 1 marks:

(5)

- Q.1. what are Receptors?
- Q.2. Give the significance of Parthenogenesis.
- Q.3. what is the significance of larval forms of Invertebrates?
- Q.4. Give important characteristics of Mesozoa
- Q.5. Differentiate - between Bilateria & Radiata

Each question carries 2½ Marks:

(5)

- Q.6. How development events in Insects affected by hormones?
- Q.7. Give phylogenetic Significance of -
a) Rhyncocoela (b) Entoprocta

Each question carries 5 marks -

- Q.8. Name important pseudocoelomate groups also specify their ~~origins~~ Interrelationship.

OR

- Q.9. write a short note on origin of Radiata

(5)

Q.1. write short note on following:

निम्नलिखित पर संक्षिप्त टिप्पणी लिखिए:

(5)

a) निम्न अकशोश्कों में श्वसन की प्रक्रिया
Mechanism of respiration in lower invertebrates

b) परासरण नियमन को समझाइए
Describe osmoregulation

OR
Describe the structural & functional organization of Nervous system in Invertebrates
अकशोश्कों में तंत्रिका तंत्र की संरचनात्मक तथा क्रियात्मक संगठन को समझाइए।

Q.2 Give the importance of larval forms in invertebrates (3)

अकशोश्कों में लार्वा रूपों का महत्व बताइए

Q.3 Give the name & functions of the hormones found in insects. (2)

कीटों में पाए जाने वाले hormones और उनके कार्य बताइए

Q.4 How many types of Respiratory pigments found in invertebrates? (2)

अकशोश्कीयों में कितने प्रकार के श्वसन वर्णक पाए जाते हैं?

Q.5 Give the ~~product~~ product of excretion in invertebrates (2)

अकशोश्कीयों में पाए जाने वाले उत्सर्जी उत्पादों के नाम लिखिए

Q.6 What are Receptor Organs?
ग्राही अंग क्या होते हैं?

MAA BHARTI P.G. COLLEGE , M.N. III KOTA

MIDTERM ATTENDANCE LIST 2022-23

NAME OF FACULTY		Mrs Manisha Chaturvedi mam		
CLASS		M.SC. I SEMESTER 2022-23 (mid term-2)		
SUBJECT		ZOOLOGY Invertebrate structure & function		
S.N.	STUDENTS NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	AANCHAL GOYAL	SHRI KRISHAN GOYAL	20/2/23	Aanchal
2	AKANSHA MALAV	JITENDRA MALAV	20/2/23	Akansha
3	AMAN BAGDI	MAHAVEER BAGDI	20/2/23	Aman Bagdi
4	DIVYA ARYA	KAILASH CHAND ARYA	20/2/23	Divya
5	HARSHITA GAUTAM	JAGDISH GAUTAM	20/2/23	Harshita Gautam
6	HIMANSHI GAUTAM	RAMPAL GAUTAM	20/2/23	Himanshi
7	JIGYASA SHRIVASTAVA	MANOJ SHRIVASTAVA	20/2/23	Jigyasa
8	JORAVER SINGH	HIMMAT SINGH	20/2/23	Joraver Singh
9	JYOTI PANKAJ	AMRIT LAL PANKAJ	20/2/23	Jyoti
10	KAJOL JANGID	BABU LAL JANGID	20/2/23	Kajol
11	KHUSHBOO GUPTA	SHYAM SUNDER GUPTA	20/2/23	Khushboo
12	KRATIKA YOGI	RAJENDRA PRASAD YOGI	20/2/23	Kratika
13	MEENAKSHI SUMAN	GHANSHYAM LAL SUMAN	20/2/23	Meenakshi
14	MEENU NAGAR	RAMDYAL NAGAR	20/2/23	Meenu
15	NEHA GALAV	S L GALAV	20/2/23	Neha
16	NISHA NAGAR	SHIV PRASAD NAGAR	20/2/23	Nisha
17	POOJA SHARMA	NAGENDRA MOHAN SHARMA	20/2/23	Pooja
18	PRACHI JAIN	PARAS KUMAR JAIN	20/2/23	Prachi
19	PREETI SHARMA	GOVIND PRASAD SHARMA	20/2/23	Preeti
20	PRIYA PANCHAL	JAGDISH PANCHAL	20/2/23	Priya
21	PRIYANKA NAGAR	RAGHU NATH PRASAD NAGAR	20/2/23	Priyanka Nagar
22	RASHMI YOGI	JAGDISH YOGI	20/2/23	Rashmi Yogi
23	SAHIL HUSAIN	ASHIK HUSAIN	20/2/23	Sahil
24	SAKSHI YOGI	BHAWANI SHANKAR YOGI	20/2/23	Sakshi
25	SATYENDRA SINGH SOLANKI	GAJRAJ SINGH SOLANKI	20/2/2023	Satyendra
26	SHAIKALI JAIN	SHYAM BIHARI JAIN	20/2/23	Shaijali
27	SUMAN KANDERA	KAILASH CHAND	20/2/2023	Suman
28	VASUDHA GAUTAM	YADU NANDAN GAUTAM	20/2/2023	Vasudha
29				
30				

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UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

12201-M.SC. ZOOLOGY I-SEMESTER EXAM.DEC.-2022 (NEW SCHEME)

12201-INVERTEBRATE: STRUCTURE AND FUNCTIONS-(INT)

Batch NO: 363

S.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	196033	JIGYASA SHRIVASTAVA	MANOJ SHRIVASTAVA	30	26
2	238762	AANCHAL GOYAL	SHRI KRISHAN GOYAL	30	25
3	238763	AKANSHA MALAV	JITENDRA MALAV	30	26
4	238764	AMAN BAGDI	MAHAVEER BAGDI	30	25
5	238765	DIVYA ARYA	KAILASH CHAND ARYA	30	26
6	238766	HARSHITA GAUTAM	JAGDISH GAUTAM	30	27
7	238767	HIMANSHI GAUTAM	RAMPAL GAUTAM	30	25
8	238768	JORAVER SINGH	HIMMAT SINGH	30	26
9	238769	JYOTI PANKAJ	AMRIT LAL PANKAJ	30	25
10	238770	KAJOL JANGID	BABU LAL JANGID	30	26
11	238771	KHUSHBOO GUPTA	SHYAM SUNDER GUPTA	30	26
12	238772	KRATIKA YOGI	RAJENDRA PRASAD YOGI	30	25
13	238773	MEENAKSHI SUMAN	GHANSHYAM LAL SUMAN	30	27
14	238774	MEENU NAGAR	RAMDYAL NAGAR	30	28
15	238775	NEHA GALAV	S L GALAV	30	28
16	238776	NISHA NAGAR	SHIV PRASAD NAGAR	30	26
17	238777	POOJA SHARMA	NAGENDRA MOHAN SHARMA	30	28
18	238778	PRACHI JAIN	PARAS KUMAR JAIN	30	26
19	238779	PREETI SHARMA	GOVIND PRASAD SHARMA	30	26
20	238780	PRIYA PANCHAL	JAGDISH PANCHAL	30	28

Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner

14-Apr-2023

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UNIVERSITY OF KOTA, KOTA

11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

12201-M.SC. ZOOLOGY I-SEMESTER EXAM.DEC.-2022 (NEW SCHEME)
12201-INVERTEBRATE: STRUCTURE AND FUNCTIONS-(INT)

Batch NO: 3633

No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	238781	PRIYANKA NAGAR	RAGHU NATH PRASAD NAGAR	30	26
2	238782	RASHMI YOGI	JAGDISH YOGI	30	27
3	238783	SAHIL HUSAIN	ASHIK HUSAIN	30	25
4	238784	SAKSHI YOGI	BHAWANI SHANKAR YOGI	30	28
5	238785	SATYENDRA SINGH SOLANKI	GAJRAJ SINGH SOLANKI	30	28
6	238786	SHAFALI JAIN	SHYAM BIHARI JAIN	30	26
7	238787	SUMAN KANDERA	KAILASH CHAND	30	26
8	238788	VASUDHA GAUTAM	YADU NANDAN GAUTAM	30	28

Signature of External Examiner

Signature of Internal Examiner

Date of Submission.....

14-Apr-2023

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maa Bharti P.G. College
M.Sc. Zoology. Semester - I
Paper - II Biochemistry.
Mid term - I

Time - 1 hour

Marks - 15

Each Question carry 1 marks.

- Q.1. Define functional group and give two examples.
Q.2. Define hydrogen bond with example.
Q.3. What are prosthetic group? Give an example.
Q.4. What is reducing sugar? Give an example.
Q.5. What is amino sugar? Give an example.

Attempt any two Questions (2.5 marks each).

- Q.6. Difference between enzymatic & non enzymatic catalysts.
Q.7. Write short notes on enzymatic specificity.
Q.8. Explain disaccharides with example.

Attempt any one Question (5 marks each)

- Q.9. Give enzyme classification

or
Give carbohydrate classification.

11/2/24
maa Bhauti P.G. college, Kala
M.Sc. Zoology. Semester - Ist
Paper - II Biochemistry
mid term - II

Time - 1 hour

marks - 15.

Each Question carry 1 marks.

- Q.1. What are vitamins? How do classify them.
Q.2. What is anti xerophthalmic factor
Q.3. What is the precursor of vitamin - D.
Q.4. Hormone which are secreted from neurohypophysis
Q.5. What is aomegaly.

Short notes any two (each - 2.5 marks)

- Q.6. (a) chemical Synthesis of peptidase
(b) Secondary structure of proteins.
(c) Glycolysis

Attempt any one Questions (each 5 marks)

- Q.7. (a) pentose phosphate pathway & its regulation
or
(b) lipid biosynthesis

MAA BHARTI P.G. COLLEGE , M.N. III KOTA

MIDTERM ATTENDANCE LIST 2022-23

NAME OF FACULTY		(2)		
CLASS		M.SC. I SEMESTER 2022-23		
SUBJECT		ZOOLOGY Biochemistry		
S.N.	STUDENTS NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	AANCHAL GOYAL	SHRI KRISHAN GOYAL	21/2/23	Aanchal
2	AKANSHA MALAV	JITENDRA MALAV	21/2/23	Akansha
3	AMAN BAGDI	MAHAVEER BAGDI	21/2/23	Aman
4	DIVYA ARYA	KAILASH CHAND ARYA	21/2/23	Divya
5	HARSHITA GAUTAM	JAGDISH GAUTAM	21/2/23	Harshita Gautam
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9	JYOTI PANKAJ	AMRIT LAL PANKAJ	21/2/23	Jyoti
10	KAJOL JANGID	BABU LAL JANGID	21/2/23	Kajol
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12	KRATIKA YOGI	RAJENDRA PRASAD YOGI	21/2/23	Kratika
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20	PRIYA PANCHAL	JAGDISH PANCHAL	21/2/23	Priya
21	PRIYANKA NAGAR	RAGHU NATH PRASAD NAGAR	21/2/23	Priyanka
22	RASHMI YOGI	JAGDISH YOGI	21/2/23	Rashmi
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27	SUMAN KANDERA	KAILASH CHAND	21/2/23	Suman
28	VASUDHA GAUTAM	YADU NANDAN GAUTAM	21/2/23	Vasudha
29				
30				

SHWETA SAXENA

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UNIVERSITY OF KOTA, KOTA
11-MAA BHARTE P.G. MAHAVIDYALAYA, KOTA
12201-M.SC. ZOOLOGY I-SEMESTER EXAM. DEC.-2022 (NEW SCHEME)
12202-BIOCHEMISTRY-(INT)

Batch NO: 3633

No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	196033	JIGYASA SHRIVASTAVA	MANOJ SHRIVASTAVA	30	25
2	238762	AANCHAL GOYAL	SHRI KRISHAN GOYAL	30	25
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19	238779	PREETI SHARMA	GOVIND PRASAD SHARMA	30	27
20	238780	PRIYA PANCHAL	JAGDISH PANCHAL	30	28

Signature of Internal Examiner

Date of Submission.....

Signature of External Examiner

14-Apr-2023

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Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	238781	PRIYANKA NAGAR	RAGHU NATH PRASAD NAGAR	30	26
2	238782	RASHMI YOGI	JAGDISH YOGI	30	27
3	238783	SAHIL HUSAIN	ASHIK HUSAIN	30	25
4	238784	SAKSHI YOGI	BHAWANI SHANKAR YOGI	30	27
5	238785	SATYENDRA SINGH SOLANKI	GAJRAJ SINGH SOLANKI	30	27
6	238786	SHAIFALI JAIN	SHYAM BIHARI JAIN	30	26
7	238787	SUMAN KANDERA	KAILASH CHAND	30	26
8	238788	VASUDHA GAUTAM	YADU NANDAN GAUTAM	30	27

Signature of External Examiner

Signature of Internal Examiner

Date of Submission.....

14-Apr-2023

Maa Bhauti P. U. College, Kota
M.Sc. Zoology - Semester - I
Paper - III Cell Biology
Mid term - I

Time - one hour

All 5 Questions carry equal marks. (1×5=5) marks-15

- Q.1. Define microscopy.
माइक्रोस्कोपी को परिभाषित कीजिए।
- Q.2. Give formula of numerical aperture.
अंख्यात्मक द्वारक का सूत्र लिखिए।
- Q.3. What is centrifugation?
अपकेन्द्रीकरण क्या है।
- Q.4. Give difference between Intravital & Supravital staining.
इन्ट्रा और सुपरावाइटल रंजकों में अंतर बताइए।
- Q.5. Define coacervates.
कोएसरेबेट को परिभाषित कीजिए।
- Q.6. Comparison between light microscope & electron microscope.
प्रकाश व इलेक्ट्रॉन सूक्ष्मदर्शी की तुलना कीजिए, ^{2 1/2}
- Q.7. Short notes any one.
निम्न एक पर साक्षित लिखणी लिखिए। ^{2 1/2}
(A) Homogenization (समांगीकरण)
(B) Fluorescence microscope (प्रतिदीप्त सूक्ष्मदर्शी)
- Q.8. Write an essay on phase contrast microscope.
प्रतिलम्ब विपरीती सूक्ष्मदर्शी पर एक लेख लिखिए। (5)

Maa Bhauri P. W. college
M.Sc. I semester
paper - III cell biology
mid term - II

Time - 1 hour

Marks - 15.

Attempt all the Questions :-

- Q.1. what are Glyoxysome.
- Q.2. Write the function of Ribosome
- Q.3. Write difference between cilia & flagella
- Q.4. What is plasmid.
- Q.5. Define C-value paradox

Write short notes on any two :-

- Q.6. (a) Nucleosome model of chromosome.
- (b) Peroxisome.
- (c) Nucleolus.

Attempt any one Questions

- Q.7. Explain structure and functions of mitochondria
or
Explain structure and function of nucleus.

MAA BHARTI P.G. COLLEGE , M.N. III KOTA

MIDTERM ATTENDANCE LIST 2022-23

NAME OF FACULTY				
CLASS		M.SC. I SEMESTER 2022-23		
SUBJECT		ZOOLOGY <i>cell biology</i>		
S.N.	STUDENTS NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	AANCHAL GOYAL	SHRI KRISHAN GOYAL	22/2/23	<i>Aanchal</i>
2	AKANSHA MALAV	JITENDRA MALAV	22/2/22	<i>Akansha</i>
3	AMAN BAGDI	MAHAVEER BAGDI	22/2/23	<i>Aman</i>
4	DIVYA ARYA	KAILASH CHAND ARYA	22/2/23	<i>Divya</i>
5	HARSHITA GAUTAM	JAGDISH GAUTAM	22/2/22	<i>Harshita Gautam</i>
6	HIMANSHI GAUTAM	RAMPAL GAUTAM	22/2/23	<i>Himanshi</i>
7	JIGYASA SHRIVASTAVA	MANOJ SHRIVASTAVA	22/2/23	<i>Jigyasa</i>
8	JORAVER SINGH	HIMMAT SINGH	22/2/23	<i>Joraver</i>
9	JYOTI PANKAJ	AMRIT LAL PANKAJ	22/2/23	<i>Jyoti</i>
10	KAJOL JANGID	BABU LAL JANGID	22/2/23	<i>Kajol</i>
11	KHUSHBOO GUPTA	SHYAM SUNDER GUPTA	22/2/23	<i>Khushboo</i>
12	KRATIKA YOGI	RAJENDRA PRASAD YOGI	22/2/23	<i>Krati</i>
13	MEENAKSHI SUMAN	GHANSHYAM LAL SUMAN	22/2/23	<i>Meenu</i>
14	MEENU NAGAR	RAMDYAL NAGAR	22/2/23	<i>Meenu</i>
15	NEHA GALAV	S L GALAV	22/2/23	<i>Neha</i>
16	NISHA NAGAR	SHIV PRASAD NAGAR	22/2/23	<i>Nisha</i>
17	POOJA SHARMA	NAGENDRA MOHAN SHARMA	22/2/23	<i>Pooja</i>
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19	PREETI SHARMA	GOVIND PRASAD SHARMA	22/2/23	<i>Preeti</i>
20	PRIYA PANCHAL	JAGDISH PANCHAL	22/2/23	<i>Priyanka</i>
21	PRIYANKA NAGAR	RAGHU NATH PRASAD NAGAR	22/2/23	<i>Priyanka</i>
22	RASHMI YOGI	JAGDISH YOGI	22/2/23	<i>Rashmi</i>
23	SAHIL HUSAIN	ASHIK HUSAIN	22/2/23	<i>Sahil</i>
24	SAKSHI YOGI	BHAWANI SHANKAR YOGI	22/2/23	<i>Sakshi</i>
25	SATYENDRA SINGH SOLANKI	GAJRAJ SINGH SOLANKI	22/2/23	<i>Satendra</i>
26	SHAFALI JAIN	SHYAM BIHARI JAIN	22/2/23	<i>Shafali</i>
27	SUMAN KANDERA	KAILASH CHAND	22/2/23	<i>Suman</i>
28	VASUDHA GAUTAM	YADU NANDAN GAUTAM	22/2/23	<i>Vasudha</i>
29				
30				

SHWETA SAXENA

25.04.2024 10:51

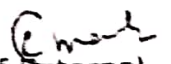


UNIVERSITY OF KOTA, KOTA
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA

12201-M.SC. ZOOLOGY I-SEMESTER EXAM.DEC.-2022 (NEW SCHEME)
12204-CELL BIOLOGY-(INT)

Batch NO: :

S.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awa
1	196033	JIGYASA SHRIVASTAVA	MANOJ SHRIVASTAVA	30	25
2	238762	AANCHAL GOYAL	SURE KRISHAN GOYAL	30	25
3	238763	ANANSHA MALAN	UTTENDRA MALAN	30	25
4	238764	AMAN BAGDI	MAHAVEER BAGDI	30	25
5	238765	DIVYA ARYA	KAJLASH CHAND ARYA	30	25
6	238766	HARSHITA GAUTAM	JAGDISH GAUTAM	30	25
7	238767	HIMANSHI GAUTAM	RAMPAL GAUTAM	30	25
8	238768	JORAVAR SINGH	HIMMAT SINGH	30	26
9	238769	JYOTI PANKAJ	AMRIT LAL PANKAJ	30	27
10	238770	KAJOL JANGID	BABU LAL JANGID	30	25
11	238771	KHUSHBOO GUPTA	SHYAM SUNDER GUPTA	30	26
12	238772	KRATIKA YOGI	RAJENDRA PRASAD YOGI	30	27
13	238773	MEENAKSHI SUMAN	GHANSHYAM LAL SUMAN	30	25
14	238774	MEENU NAGAR	RAMDYAL NAGAR	30	28
15	238775	NEHA GALAV	S L GALAV	30	27
16	238776	NISHA NAGAR	SHIV PRASAD NAGAR	30	27
17	238777	POOJA SHARMA	NAGENDRA MOHAN SHARMA	30	29
18	238778	PRACHI JAIN	PARAS KUMAR JAIN	30	25
19	238779	PREETI SHARMA	GOVIND PRASAD SHARMA	30	28
20	238780	PRIYA PANCHAL	JAGDISH PANCHAL	30	28


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Date of Submission.....

14-Apr-2023

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11-MAA BHARTI P.G. MAHAVIDYALAYA, KOTA
12201-M.SC. ZOOLOGY I-SEMESTER EXAM.DEC.-2022 (NEW SCHEME)
12204-CELL BIOLOGY-(INT)

Batch NO: 36345

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	238781	PRIYANKA NAGAR	RAGHU NATH PRASAD NAGAR	30	26
2	238782	RASHMI YOGI	JAGDISH YOGI	30	26
3	238783	SAHIL HUSAIN	ASHIK HUSAIN	30	25
4	238784	SAKSHI YOGI	BIHAWANI SHANKAR YOGI	30	28
5	238785	SATY NDRA SINGH SOLANKI	GAJRAJ SINGH SOLANKI	30	27
6	238786	SHAIFALI JAIN	SHYAM BHHARI JAIN	30	26
7	238787	SUMAN KANDERA	KAILASH CHAND	30	26
8	238788	VASUDHA GAUTAM	YADU NANDAN GAUTAM	30	27

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M.Sc. Zoology, Semester - Ist

Paper - IV - Evolution & Biostatistics

mid term - I

Time - 1 hour

marks - 15.

Attempt all the Questions.

- Q.1 What is molecular drive? give example.
- Q.2 What is macroevolution? give example.
- Q.3 What is Niche?
- Q.4 Define mode & its formula?
- Q.5 What is variance?
- Q.6 Answer any two ($2.5 \times 2 = 5$)
- (a) molecular evolution
 - (b) standard error of the mean
 - (c) Role of Remote sensing for sustainable development.
- Q.7 Answer any one Questions -
- (1) Mimicry & coloration with suitable examples
or
- (2) Explain following:-
- (a) Bar diagrams
 - (b) Histograms
 - (c) Line diagrams
 - (d) Frequency polygons

maa Bharti P.G. college

M.Sc. Zoology Semester - Ist

Paper - II Evolution & Biostatistics

Mid term - II

Time - 1 hour

max marks - 15

Attempt all the Questions.

- Q.1. What is non-Darwinism hypothesis.
- Q.2. Give any two examples of mimicry.
- Q.3. Define phylogenetic concept of species.
- Q.4. What do you mean by biostatistics.
- Q.5. What are histograms.

attempt any two Questions.

- Q.6. Explain adaptive radiation with suitable examples.
- Q.7. Write a note on molecular clock.
- Q.8. Write a brief note on chi-square test.

Attempt any one Question

- Q.9. Explain various modes of speciation.
or
- Q.10. Write a short note on correlation.

MAA BHARTI P.G. COLLEGE , M.N. III KOTA

MIDTERM ATTENDANCE LIST 2022-23

NAME OF FACULTY				
CLASS		M.SC. I SEMESTER 2022-23		
SUBJECT		ZOOLOGY <i>Evolution & Biostatistics</i>		
S.N.	STUDENTS NAME	FATHER'S NAME	DATE OF SUBMISSION	SIGNATURE
1	AANCHAL GOYAL	SHRI KRISHAN GOYAL	24/2/23	<i>Aanchal</i>
2	AKANSHA MALAV	JITENDRA MALAV	24/2/23	<i>Akansha</i>
3	AMAN BAGDI	MAHAVEER BAGDI	24/2/23	<i>Aman</i>
4	DIVYA ARYA	KAILASH CHAND ARYA	24/2/23	<i>Divya</i>
5	HARSHITA GAUTAM	JAGDISH GAUTAM	24/2/23	<i>Harshita</i>
6	HIMANSHI GAUTAM	RAMPAL GAUTAM	24/2/23	<i>Himanshi</i>
7	JIGYASA SHRIVASTAVA	MANOJ SHRIVASTAVA	24/2/23	<i>Jigyasa</i>
8	JORAVER SINGH	HIMMAT SINGH	24/2/23	<i>Joraver</i>
9	JYOTI PANKAJ	AMRIT LAL PANKAJ	24/2/23	<i>Jyoti</i>
10	KAJOL JANGID	BABU LAL JANGID	24/2/23	<i>Kajol</i>
11	KHUSHBOO GUPTA	SHYAM SUNDER GUPTA	24/2/23	<i>Khushboo</i>
12	KRATIKA YOGI	RAJENDRA PRASAD YOGI	24/2/23	<i>Kratika</i>
13	MEENAKSHI SUMAN	GHANSHYAM LAL SUMAN	24/2/23	<i>Meenakshi</i>
14	MEENU NAGAR	RAMDYAL NAGAR	24/2/23	<i>Meenu</i>
15	NEHA GALAV	S L GALAV	24/2/23	<i>Neha</i>
16	NISHA NAGAR	SHIV PRASAD NAGAR	24/2/23	<i>Nisha</i>
17	POOJA SHARMA	NAGENDRA MOHAN SHARMA	24/2/23	<i>Pooja</i>
18	PRACHI JAIN	PARAS KUMAR JAIN	24/2/23	<i>Prachi</i>
19	PREETI SHARMA	GOVIND PRASAD SHARMA	24/2/23	<i>Preeti</i>
20	PRIYA PANCHAL	JAGDISH PANCHAL	24/2/23	<i>Priya</i>
21	PRIYANKA NAGAR	RAGHU NATH PRASAD NAGAR	24/2/23	<i>Priyanka</i>
22	RASHMI YOGI	JAGDISH YOGI	24/2/23	<i>Rashmi</i>
23	SAHIL HUSAIN	ASHIK HUSAIN	24/2/23	<i>Sahil</i>
24	SAKSHI YOGI	BHAWANI SHANKAR YOGI	24/2/23	<i>Sakshi</i>
25	SATYENDRA SINGH SOLANKI	GAJRAJ SINGH SOLANKI	24/2/2023	<i>Satyendra</i>
26	SHAIKALI JAIN	SHYAM BIHARI JAIN	24/2/23	<i>Shaili</i>
27	SUMAN KANDERA	KAILASH CHAND	24/2/23	<i>Suman</i>
28	VASUDHA GAUTAM	YADU NANDAN GAUTAM	24/2/23	<i>Vasudha</i>
29				
30				

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UNIVERSITY OF KOTA, KOTA
11-MAA BHARTI P.O. MAHAVIDHYALYA, KOTA
12201-M.SC. ZOOLOGY 1-SEMESTER EXAM.DEC.-2022 (NEW SCHEME)
12205-EVOLUTION AND BIOSTATISTICS-(INT)

Batch NO: 36346

Roll No.	Name	Father's Name	Max. M.	Marks Awarded
196033	JIGYASA SHRIVASTAVA	MANOJ SHRIVASTAVA	30	26
238762	AANCHAL GOYAL	SHRI KRISHAN GOYAL	30	26
238763	AKANSHA MALAV	JITENDRA MALAV	30	25
238764	AMAN BAGDI	MAHAVEER BAGDI	30	26
238765	DIVYA ARYA	KAILASH CHAND ARYA	30	26
238766	HARSHITA GAUTAM	JAGDISH GAUTAM	30	27
238767	HIMANSHI GAUTAM	RAMPAL GAUTAM	30	25
238768	JORAVER SINGH	HIMMAT SINGH	30	25
238769	JYOTI PANKAJ	AMRIT LAL PANKAJ	30	27
238770	KAJOL JANGID	BABU LAL JANGID	30	24
238771	KHUSHBOO GUPTA	SHYAM SUNDER GUPTA	30	26
238772	KRATIKA YOGI	RAJENDRA PRASAD YOGI	30	26
238773	MEENAKSHI SUMAN	GHANSHYAM LAL SUMAN	30	25
238774	MEENU NAGAR	RAMDYAL NAGAR	30	28
238775	NEHA GALAV	S L GALAV	30	28
238776	NISHA NAGAR	SHIV PRASAD NAGAR	30	26
238777	POOJA SHARMA	NAGENDRA MOHAN SHARMA	30	29
238778	PRACHI JAIN	PARAS KUMAR JAIN	30	26
238779	PREETI SHARMA	GOVIND PRASAD SHARMA	30	26
238780	PRIYA PANCHAL	JAGDISH PANCHAL	30	28

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12201-M.SC. ZOOLOGY I-SEMESTER EXAM, DEC.-2022 (NEW SCHEME)
12205-EVOLUTION AND BIOSTATISTICS-(INT)

Batch NO: 36347

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	238781	PRIYANKA NAGAR	RAGHU NATH PRASAD NAGAR	30	27
2	238782	RASHMI YOGI	JAGDISH YOGI	30	26
3	238783	SAHIL HUSAIN	ASHIK HUSAIN	30	25
4	238784	SAKSHI YOGI	BHAWANI SHANKAR YOGI	30	28
5	238785	SATYENDRA SINGH SOLANKI	GAJRAJ SINGH SOLANKI	30	28
6	238786	SHAIFALI JAIN	SHYAM BIHARI JAIN	30	25
7	238787	SUMAN KANDERA	KAILASH CHAND	30	26
8	238788	VASUDHA GAUTAM	YADU NANDAN GAUTAM	30	27

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Each Question carries 1 marks -

- Q.1. write important characteristics of Placoderm. (5)
Q.2. What are tunicates?
Q.3. What are deuterostomes?
Q.4. write important characteristics of Chordata
Q.5. What do you mean by Geological time scale

Each question carries 2½ marks -

- Q.6. Describe following - (2½)
(a) Agnatha
(b) life cycle of Pyrosoma
Q.7. write a note on origin, ~~evolution~~ (2½)
& adaptive radiation of vertebrates

Q.8. Question carries 5 marks -

- Q.8. Define following -
(a) Hemichordata
(b) cyclostomes
(c) Evolution of vertebrates

or

Describe life cycle of -

- (a) Salpa
(b) Doliolus

total marks: 15
time 1hr

- Q.1. What do you mean by Adaptive Radiation? (2)
- Q.2. What are Cotylossurid? (2)
- Q.3. What are Living reptiles? (2)
- Q.4. Give the evolutionary significance of Dinosaurs (2)
- Q.5. Give the outline classification of Reptilia (2)
- Q.6. Give important characteristics of - (5)
(a) Elasmobranchi (b) Holocephali
(c) Dipnoi (d) Teleostomi

1st mid term

MAA BHARTI P.G. COLLEGE , M.N. III KOTA			
MSC III SEMESTER ZOOLOGY ATTENDANCE LIST 2021-22			
NAME OF FACULTY		Manisha Chaturvedi	
SUBJECT		M.Sc III rd Sem chordata	
S.N.	STUDENTS NAME	FATHER'S NAME	SIGNATURE
1	BHUPENDRA SAINI ✓	DEEPAK KUMAR SAINI	Bhupendra
2	BINDIYA NAGAR ✓	UMASHANKER NAGAR	Bindiya Nagar
3	GOVIND VERMA ✓	RAM LAL VERMA	Govind
4	HARSITA JANGID ✓	RAMKARAN JANGID	Harsita
5	JAGDISH PRASAD MEENA ✓	BHARAT LAL MEENA	Jagdish
6	JYOTI BHATIA ✓	RAM CHAND NICHWANI	Jyoti
7	KALPANA MAHAWAR ✓	BABULAL MAHAWAR	Kalpna
8	KOMAL NAGAR ✓	SURESH NAGAR	Komal
9	MAHIPAL GURJAR ✓	MALARAM GURJAR	Mahipal Gurjar
10	NANDANI MEHRA ✓	VIJENDRA MEHRA	Nandani
11	POOJA SHARMA ✓	PAWAN SHARMA	Pooja
12	PRAVEEN PRAJAPAT ✓	SARIKISHAN PRAJAPAT	Praveen
13	RACHNA KUMAR PRAJAPATI ✓	KAILASH CHAND PRAJAPATI	Rachna Kumar Prajapati
14	RAVI KUMAR BAIRWA ✓	BABU LAL BAIRWA	Ravi Kumar
15	SALONI TIWARI ✓	PAWAN KUMAR TIWARI	Saloni
16	SONAL NAGAR ✓	RAMESHWAR NAGAR	Sonal Nagar
17	VAISHALI CHOUDHARY ✓	JASWANT SINGH	Vaishali Choudhary
18	VIPRA JAIN ✓	PARAS KIMAR JAIN	Vipra Jain
19	Monika Rathod ✓	Dharmendra Singh	Monika
20			

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UNIVERSITY OF KOTA, KOTA
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA
86003-M.Sc. ZOOLOGY SEMESTER-III EXAM.-DEC.-2022
8620-CHORDATA-(INT)

Batch NO: 36835

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223491	BHUPENDRA SAINI	DEEPAK KUMAR SAINI	30	28
2	223492	GOVIND VERMA	RAM LAL VERMA	30	28
3	223493	HARSITA JANGID	RAMKARAN JANGID	30	26
4	223494	JAGDISH PRASAD MEENA	BHARAT LAL MEENA	30	28
5	223496	KOMAL NAGAR	SURESH NAGAR	30	26
6	223497	MAHIPAL GURJAR	MALARAM GURJAR	30	27
7	223498	MONIKA RATHOD	DHARMENDRA RATHOD	30	24
8	223499	NANDANI MEHRA	VIJENDRA MEHRA	30	27
9	223500	NICHWANI JYOTI RAMCHAND	RAMCHAND NICHWANI	30	26
10	223501	POOJA SHARMA	PAWAN SHARMA	30	26
11	223502	PRAVEEN PRAJAPAT	SARIKISHAN PRAJAPAT	30	24
12	223504	RAVI KUMAR BAIRWA	BABU LAL BAIRWA	30	28
13	223505	SALONI TIWARI	PAWAN KUMAR TIWARI	30	25
14	223506	SAPNA LODHA	RAJESH VERMA	30	22
15	223507	SONAL NAGAR	RAMESHWAR NAGAR	30	25
16	223508	VAISHALI CHOUDHARY	JASWANT SINGH	30	26
17	223509	VIPRA JAIN	PARAS KUMAR JAIN	30	27

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Signature of External Examiner

Date of Submission.....

14-Apr-2023

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University of Kota, Kota

Department of Zoology

Mid-term Exam - I

Paper-13B Environment

Sec. A . All questions are Compulsory will carry 5 marks

Q1. Define Ecology

Q2. Define Ecotones

Q3. What is biogeochemical cycle write names of two biogeochemical cycle

Q4. What are abiotic factors give example

Q5. Write the floral fauna of lentic habitat

5 marks

Sec B Attempt any two

Q1. Explain food web with suitable diagram.

Q2. A brief outline of structure of an Ecosystem.

Q3. Explain a grassland habitat

5 marks

Sec C Attempt any two

Q1. Explain Pond Ecosystem with sp. reference to flora & fauna

Q2. Scope of ecology

Maa Bharti P.G. College, Kota
M.Sc. Zoology, Semester-IIIrd
Paper-II, Animal Ecology
mid term - II

Time - 1 hour

marks - 15.

- Q.1. Define Ecotone?
- Q.2. What is stratification?
- Q.3. What is continuum?
- Q.4. Define polyclimax theory of succession?
- Q.5. What is homeostasis in the ecosystem?

Attempt any two Questions - ($2.5 \times 2 = 5$)

- Q.6. (1) population growth forms
(2) Evolution of communities.
(3) Flow of matter & energy in Ecosystem.

Q.7. Give a detailed notes on.

(1) measurement of population
or

(2) Fluctuation within community

MAA BHARTI P.G. COLLEGE , M.N. III KOTA

MSC II SEMESTER ZOOLOGY ATTENDANCE LIST 2021-22

NAME OF FACULTY		Meeraj Dhalia	
SUBJECT		M.Sc II Sem (Animal Ecology)	
S.N.	STUDENTS NAME	FATHER'S NAME	SIGNATURE
1	BHUPENDRA SAINI	DEEPAK KUMAR SAINI	Bhupendra
2	BINDIYA NAGAR	UMASHANKER NAGAR	Bindiya Nagar
3	GOVIND VERMA	RAM LAL VERMA	Govind
4	HARSITA JANGID	RAMKARAN JANGID	Harsita
5	JAGDISH PRASAD MEENA	BHARAT LAL MEENA	Jagdish
6	JYOTI BHATIA	RAM CHAND NICHWANI	Jyoti
7	KALPANA MAHAWAR	BABULAL MAHAWAR	Kalpang
8	KOMAL NAGAR	SURESH NAGAR	Komal
9	MAHIPAL GURJAR	MALARAM GURJAR	Mahipal Gurjar
10	NANDANI MEHRA	VIJENDRA MEHRA	Nandani
11	POOJA SHARMA	PAWAN SHARMA	Pooja
12	PRAVEEN PRAJAPAT	SARIKISHAN PRAJAPAT	Praveen
13	RACHNA KUMAR PRAJAPATI	KAILASH CHAND PRAJAPATI	Rachna Kumar Prajapati
14	RAVI KUMAR BAIRWA	BABU LAL BAIRWA	Ravikumar
15	SALONI TIWARI	PAWAN KUMAR TIWARI	Saloni
16	SONAL NAGAR	RAMESHWAR NAGAR	Sonal Nagar
17	VAISHALI CHOUDHARY	JASWANT SINGH	Vaishali Choudhary
18	VIPRA JAIN	PARAS KIMAR JAIN	Vipra Jain
19	Monika Rathod	Dharmendra Singh	Monika
20			

Sushma

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UNIVERSITY OF KOTA, KOTA
11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA
86003-M.Sc. ZOOLOGY SEMESTER-III EXAM.-DEC.-2022
8621-ANIMAL ECOLOGY-(INT)

Batch NO: 36836

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223491	BHUPENDRA SAINI	DEEPAK KUMAR SAINI	30	28
2	223492	GOVIND VERMA	RAM LAL VERMA	30	26
3	223493	HARSITA JANGID	RAMKARAN JANGID	30	25
4	223494	JAGDISH PRASAD MEENA	BHARAT LAL MEENA	30	27
5	223495	KOMAL NAGAR	SURESH NAGAR	30	26
6	223496	MAHIPAL GURJAR	MALARAM GURJAR	30	27
7	223496	MONIKA RATHOD	DHARMENDRA RATHOD	30	24
8	223499	NANDANI MEHRA	VIJENDRA MEHRA	30	26
9	223500	NICHWANI JYOTI RAMCHAND	RAMCHAND NICHWANI	30	25
10	223501	POOJA SHARMA	PAWAN SHARMA	30	24
11	223502	PRAVEEN PRAJAPAT	SARIKISHAN PRAJAPAT	30	24
12	223504	RAVI KUMAR BAIRWA	BABU LAL BAIRWA	30	27
13	223505	SALONI TIWARI	PAWAN KUMAR TIWARI	30	26
14	223506	SAPNA LODHA	RAJESH VERMA	30	25
15	223507	SONAL NAGAR	RAMESHWAR NAGAR	30	25
16	223508	VAISHALI CHOUDHARY	JASWANT SINGH	30	27
17	223509	VIPRA JAIN	PARAS KUMAR JAIN	30	28

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Maa Bharti P.G. College.

Semester - III Zoology.

Paper - I (Fish biology)

mid Term test - I

Time - 1 hour

marks 15.

Q.1. Give difference between Bony & cartilaginous fishes.

आस्थिल व ड्यार-थिल मछलियों में अंतर बताइये।

Q.2. Difference between ray & skates.

रे व स्कोट मछलियों में अंतर बताइये।

Q.3. Write the names of living fossils of coelopterygian.

कोइनोप्टेरिजियन के जीवित जीवाश्म का नाम बताइये।

Q.4. Write the full form of IUCN.

Q.5. Difference between Sarcopterygian & Actinopterygian fishes.

सार्कोप्टेरिजियन व कोइनोप्टेरिजियन मछलियों में अंतर बताइये।

Q.6. Write short notes on.

मिन्न पर संक्षिप्त टिप्पणी लिखिये।

(1) Dipnoi (2) conservation status

Q.7. Give the characters, classification (upto order) of Actinopterygian with suitable examples.

अक्टिनोप्टेरिजियन के लक्षण, वर्गीकरण (गणों तक) उदाहरण सहित लिखिये।

or

Give the characters & outline classification of pisces.

पिस्सीज के लक्षण व वर्गीकरण की समझाइये।

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Maan Bhaati P.G. College

M.Sc. III Semester

Paper - Z(13) Fish biology - I

mid term - II

Time - 1 hour

marks - 15.

- Q.1. Define Integument
- Q.2. Difference between cycloid & ctenoid scales.
- Q.3. Define migration.
- Q.4. Write the name of eye muscles of fish.
- Q.5. Difference between anadromous and catadromous migration with example.
- Q.6. Short notes on any two.
- (a) colouration in fishes
 - (b) Fish locomotion
 - (c) Gill arch theory.
- Q.7. Define Swim bladder, its structure, modification & functions.

MAA BHARTI P.G. COLLEGE , M.N. III KOTA

MSC SEMESTER ZOOLOGY ATTENDANCE LIST 2021-22

NAME OF FACULTY		Dr Sushma Agrawal	
SUBJECT		Msc 1st sem (Fish biology-I)	
S.N.	STUDENTS NAME	FATHER'S NAME	SIGNATURE
1	BHUPENDRA SAINI	DEEPAK KUMAR SAINI	Bhupendra
2	BINDIYA NAGAR	UMASHANKER NAGAR	Bindiya Nagar
3	GOVIND VERMA	RAM LAL VERMA	Govind
4	HARSITA JANGID	RAMKARAN JANGID	Harsita
5	JAGDISH PRASAD MEENA	BHARAT LAL MEENA	Jagdish
6	JYOTI BHATIA	RAM CHAND NICHWANI	Jyoti
7	KALPANA MAHAWAR	BABULAL MAHAWAR	Kalpang
8	KOMAL NAGAR	SURESH NAGAR	Komal
9	MAHIPAL GURJAR	MALARAM GURJAR	Mahipal Gurjar
10	NANDANI MEHRA	VIJENDRA MEHRA	Nandani
11	POOJA SHARMA	PAWAN SHARMA	Pooja
12	PRAVEEN PRAJAPAT	SARIKISHAN PRAJAPAT	Praveen
13	RACHNA KUMAR PRAJAPATI	KAILASH CHAND PRAJAPATI	Rachna Kumar Prajapati
14	RAVI KUMAR BAIRWA	BABU LAL BAIRWA	Ravi Kumar
15	SALONI TIWARI	PAWAN KUMAR TIWARI	Saloni
16	SONAL NAGAR	RAMESHWAR NAGAR	Sonal Nagar
17	VAISHALI CHOUDHARY	JASWANT SINGH	Vaishali Choudhary
18	VIPRA JAIN	PARAS KIMAR JAIN	Vipra Jain
19	Monika Rathod	Dharmendra Singh	Monika
20			

Sushma

SHWETA SAXENA

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UNIVERSITY OF KOTA, KOTA**11-MAA BHARTI P.G. MAHAVIDHYALYA, KOTA****S6003-M.Sc. ZOOLOGY SEMESTER-III EXAM.-DEC.-2022
8630-FISH BIOLOGY-(INT)****Batch NO: 36838**

Sr.No.	Roll No.	Name	Father's Name	Max. M.	Marks Awarded
1	223491	BHUPENDRA SAINI	DEEPAK KUMAR SAINI	30	26
2	223492	GOVIND VERMA	RAM LAL VERMA	30	25
3	223493	HARSITA JANGID	RAMKARAN JANGID	30	24
4	223494	JAGDISH PRASAD MEENA	BHARAT LAL MEENA	30	27
5	223496	KOMAL NAGAR	SURESH NAGAR	30	24
6	223497	MAHIPAL GURJAR	MALARAM GURJAR	30	25
7	223498	MONIKA RATHOD	DHARMENDRA RATHOD	30	24
8	223499	NANDANI MEHRA	VIJENDRA MEHRA	30	24
9	223500	NICHWANI JYOTI RAMCHAND	RAMCHAND NICHWANI	30	26
10	223501	POOJA SHARMA	PAWAN SHARMA	30	24
11	223502	PRAVEEN PRAJAPAT	SARIKISHAN PRAJAPAT	30	22
12	223504	RAVI KUMAR BAIRWA	BABU LAL BAIRWA	30	27
13	223505	SALONI TIWARI	PAWAN KUMAR TIWARI	30	24
14	223506	SAPNA LODHA	RAJESH VERMA	30	22
15	223507	SONAL NAGAR	RAMESHWAR NAGAR	30	24
16	223508	VAISHALI CHOUDHARY	JASWANT SINGH	30	24
17	223509	VIPRA JAIN	PARAS KUMAR JAIN	30	25

Signature of External Examiner

Signature of Internal Examiner

Date of Submission.....

14-Apr-2023

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MIDTERM - I (2021-22)
M.SC. - ZOOLOGY
SEMESTER - III (PAPER - IV)
FISH BIOLOGY - II

mid term - I

total marks: 15

Time : 30m

Each question carries 1 Marks - (5)

- Q.1. On the basis of feeding How many types of fishes are there
- Q.2. what are fry?
- Q.3. name some Plankton feeder fishes.
- Q.4. name some omnivorous fishes.
- Q.5. name some Carnivorous fishes.

Each question carries 2½ marks (5)

- Q.6 Define following -
 - a) surface feeders
 - b) Column feeders
 - c) Bottom feeder.
- Q.7. what do you mean by feeding Intensity?

Q.8 Each question carries 5 marks (5)

- Q.8. Describe the structure of Aimentary canal of fishes.

or

Write a short note on Feeding habits of fishes.

Maa Bhaili P.G. College

M.Sc. Zoology . Semester-III

Paper- Fish biology -II

mid term- II

Time- 1 hour

marks- 15.

Each Question carries 1 marks:-

- Q.1. What do you mean by osmoregulation?
- Q.2. What is Gonadosomatic Index?
- Q.3. Draw a well labelled diagram of brain of a Teleost fish?
- Q.4. Give the function of lateral line system.
- Q.5. Name all the spinal nerve of a fish.

Each Question carries 2 1/2 marks:-

Q.6. Write short notes on -

- (a) Physiology of Excretion
- (b) Parental care in fishes

Q.7. Describe Sexual Dimorphism in fish.

Each Question carry 5 marks:-

Q.8. Describe Nervous System in a Teleost fish.
or

Describe following in fishes:-

- (a) maturation
- (b) spawning
- (c) fertilization

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MAA BHARTI P.G. COLLEGE , M.N. III KOTA

MSCI SEMESTER ZOOLOGY ATTENDANCE LIST 2021-22

NAME OF FACULTY		manisha Chaturvedi	
SUBJECT		M-sc III Sem (Fish biology)	
S.N.	STUDENTS NAME	FATHER'S NAME	SIGNATURE
1	BHUPENDRA SAINI	DEEPAK KUMAR SAINI	Bhupendra
2	BINDIYA NAGAR	UMASHANKER NAGAR	Bindiya Nagar
3	GOVIND VERMA	RAM LAL VERMA	Govind
4	HARSITA JANGID	RAMKARAN JANGID	Harsita
5	JAGDISH PRASAD MEENA	BHARAT LAL MEENA	Jagdish
6	JYOTI BHATIA	RAM CHAND NICHWANI	Jyoti
7	KALPANA MAHAWAR	BABULAL MAHAWAR	Kalpang
8	KOMAL NAGAR	SURESH NAGAR	Komal
9	MAHIPAL GURJAR	MALARAM GURJAR	Mahipal Gurjar
10	NANDANI MEHRA	VIJENDRA MEHRA	Nandani
11	POOJA SHARMA	PAWAN SHARMA	Pooja
12	PRAVEEN PRAJAPAT	SARIKISHAN PRAJAPAT	Praveen
13	RACHNA KUMAR PRAJAPATI	KAILASH CHAND PRAJAPATI	Rachna Kumari Prajapati
14	RAVI KUMAR BAIRWA	BABU LAL BAIRWA	Ravi Kumar
15	SALONI TIWARI	PAWAN KUMAR TIWARI	Saloni
16	SONAL NAGAR	RAMESHWAR NAGAR	Sonal Nagar
17	VAISHALI CHOUDHARY	JASWANT SINGH	Vaishali Choudhary
18	VIPRA JAIN	PARAS KIMAR JAIN	Vipra Jain
19	Monika Rathod	Dharmendra Singh	Monika
20			

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