2.5

Evaluation Process and Reforms

2.5.1

Mechanism of internal/ external assessment is transparent and the grievance redressal system is time bound and efficient.

1. Internal/ External	Views Documents
2. Result - Pre University Exam Session 2022-23	Views Documents

IQAC HEAD
CAREER MAHAVIDYALAYA
DURANA, JHUNJHUNU (Raj.)

PRINCIPAL
DR. SHIKHA SAHAY
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2.5

Evaluation Process and Reforms

2.5.1

Mechanism of internal/ external assessment is transparent and the grievance redressal system is time bound and efficient.

Transparency in Examination

College Internal examination scheme in relation to PDSU Examination Pattern

College believes in conducting internal examinations i.e. a) Internal assessment b) Pre - university examination. The performance of the students is reported to the parents also. Evaluation process is very transparent as the students can apply for revaluation and check his/her answer sheets of internal assessment. It is entirely an internal process and the marks are not added in the final University examination. For Pre University exams he/she has to apply in university examination cell. Final examination schedule notification is given through college website, from college notice board or mobile text messages. Thestudent can also get it from the website of PDUSU.

Our college maintains complete transparency in conduction of internal exams. We know that fair exams measure students' merit. The college exams are conducted in a secure environment with strict invigilation. Certain measures are taken into consideration:

(1) Keeping the secrecy of question paper.

(2) No authority is allowed to take any type of electronic gadget inside Examination Cell.

(3) Students are also deprived of retaining any electronic equipment inside the examination hall.

(4) The college senior teachers set the question bank; thereafter Examination head compiles a relevant question paper for internal examination.

(5) The final college question paper should always be kept under tight security in the control room.

(6) The sealed question paper is taken out in front of the college principal one hour before the conduction of the examination andstraight away distributed to the students.

Question Paper is drafted as per the PDUSU pattern, to make the students familiar with

the University examination pattern. After the conduction of Internal Examination, result is

compiled and within the span of 10 days; Parent-Teacher Meet is organized in which the

students' performance in academics, co-curricular activities, regularity and attending the classes, behavioral approach with his peers is discussed. This helps in building a cordial relationship among the trio. This gives a motivational upliftment to the students.

As it is stated above that if the student is not satisfied with the marks obtained can directly apply in the examination cell with an application which is free of cost and if in case a discrepancy is found then a fresh report card is made and handed over to the student with rectification.

The college will soon facilitate the examination cell with computer based application which shall keep details of the students' i.e. their course, marks, rank, category and origin etc. till the student doesn'tpass out from the college. After passing a consolidated final report can be stored year wise.

The college will be able to provide details of the students as whenever after years also the student demands for his/her credentials. This process will not only build faith of the student in the college but also work as a mouth publicity factor promoting the good will of the collegeand diverting more admissions and this will surely give rise to the financial department promoting better infrastructure.

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Internal Assessment Scheme 2022-23

Internal Assessment	Tentative Date	Marks	Time Duration
Internal Assessment 1st	First week of September	40 marks	1:30 Hour
Internal Assessment 2nd	Last week of December	40 marks	1:30 Hour
Pre University Examination	First week of January	100 Marks	3:00 Hour

Pattern of internal Assessment:

Internal Assessment 1st :

1. It is conducted after completion of approx. 50% of syllabus every year tentatively in the month of September. Question papers are framed according to the department.
2. It is conducted after completion of approx. 70% of syllabus every year tentatively in the month of December. Question papers are framed according to the department.

Pre University Examination

1. Pre University Examinations are conducted in the first week of January to evaluate performance of the students. It is entirely based on final university of PDUSU, Sikar examination pattern.

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Date: 22/08/2022

NOTICE

This is to inform all the students of UG and PG classes that internal Examination- I will be conducted from 01/09/2022. The students can contact to their respective departments Head for further details. Attendance is mandatory.

CO-ORDINATOR
(EXAMINATION)

CC to:

1. Principal
2. HODs
3. Head, IQAC

IQAC HEAD
CAREER MAHAVIDYALAYA
DURANA, JHUNJHUNU (Raj.)

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Date: 24/08/2022

<u>CIRCULAR</u>

The following faculty members are deputed for conducting internal Examination.

DEPARTMENT	NAME OF FACULTY	SIGNATURE
SCIENCE	DR.REENA KUMARI	

CO-ORDINATOR

(EXAMINATION)

CC to:

1. Principal
2. HODs
3. Head, IQAC

IQAC HEAD
CAREER MAHAVIDYALAYA
DURANA, JHUNJHUNU (Raj.)

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Date: 28/11/2022

NOTICE

This is to inform all the students of UG and PG classes that internal Examination- II will be conducted from 14/12/2022. The students can contact to their respective departments Head for further details. Attendance is mandatory.

CO-ORDINATOR
(EXAMINATION)

CC to:

1. Principal
2. HODs
3. Head, IQAC

IQAC HEAD
CAREER MAHAVIDYALAYA
DURANA, JHUNJHUNU (Raj.)

PRINCIPAL
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Date: 24/12/2022

NOTICE

This is to inform all the students of UG and PG classes that Pre-University Examination will be conducted from 06/01/2023. It is compulsory for every student to appear in the examination. The timetable will be uploaded on the college website as soon as possible.

CO-ORDINATOR
(EXAMINATION)

CC to:

1. Principal
2. HODs
3. Head, IQAC

IQAC HEAD
CAREER MAHAVIDYALAYA
DURANA, JHUNJHUNU (Raj.)

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Faculty of Science (UG)
Time Table of Internal Examination-I
2022-23
TIME :-10:00 AM - 12:30 PM

DATE	B.Sc. Maths I	B.Sc. Bio. I	B.Sc. Maths II	B.Sc. Bio. II	B.Sc. Maths III	B.Sc. Bio. III
01-09-2022	Chemistry	Chemistry	Chemistry	Chemistry	Chemistry	Chemistry
02-09-2022	Physics	Botany	Physics	Botany	Physics	Botany
03-09-2022	Maths	Zoology	Maths	Zoology	Maths	Zoology

Co-ordinator

Principal

IQAC HEAD
CAREER MAHAVIDYALAYA
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Faculty of Science (UG)
Time Table of Internal Examination-II
2022-23
TIME :-10:00 AM - 12:30 PM

DATE	B.Sc. Maths I	B.Sc. Bio. I	B.Sc. Maths II	B.Sc. Bio II	B.Sc. Maths III	BSC BIO III
14-12-2022	Chemistry	Chemistry	Chemistry	Chemistry	Chemistry	Chemistry
15-12-2022	Physics	Botany	Physics	Botany	Physics	Botany
16-12-2022	Maths	Zoology	Maths	Zoology	Maths	Zoology

Co-ordinator

Principal

CAREER MAHAVIDYALAYA

Affiliated to Pandit Deendayal Upadhyaya Shekhawati University, Sikar (Raj.)

Faculty of Science (PG)
Time Table of Internal Examination-I
2022-23

TIME	09:30 AM -12:00 Noon				12:30 PM - 03:00 PM			
DATE	Chemistry Previous	Physics Previous	Zoology Previous	Maths Previous	Chemistry Previous	Physics Previous	Zoology Previous	Maths Previous
01-09-2022	Paper 1	Paper 1	Paper 1	Paper 1	Paper 2	Paper 2	Paper 2	Paper 2
02-09-2022	Paper 3	Paper 3	Paper 3	Paper 3	Paper 4	Paper 4	Paper 4	Paper 4
03-09-2022	Paper 5		Paper 5	Paper 5	Paper 6		Paper 6	

Co-ordinator   **Principal**

CAREER MAHAVIDYALAYA

Affiliated to Pandit Deendayal Upadhyaya Shekhawati University, Sikar (Raj.)

Faculty of Science (PG)
Time Table of Internal Examination-II
2022-23

TIME	09:30 AM -12:00 Noon				12:30 PM - 03:00 PM			
DATE	Chemistry Previous	Physics Previous	Zoology Previous	Maths Previous	Chemistry Previous	Physics Previous	Zoology Previous	Maths Previous
14-12-2022	Paper 1	Paper 1	Paper 1	Paper 1	Paper 2	Paper 2	Paper 2	PAPER 2
15-12-2022	Paper 3	Paper 3	Paper 3	Paper 3	Paper 4	Paper 4	Paper 4	PAPER 4
16-12-2022	Paper 5		Paper 5	Paper 5	Paper 6		Paper 6	

Co-ordinator   **Principal**

INTERNAL EXAMINATION - I DUTY

Session 2022 -23

Sr.No.	Faculty Name	Room No.	Signature
1	Mr. Mahesh Kumar	2	
2	Mrs. Rohini	1	
3	Ms. Naveen Sarwa	3	
4	Mr. Hemant Kumawat	4	
5	Mrs. Shivani Rajpurohit	7	
6	Mr. Shyamprakash	6	
7	Mrs. Archana Sharma	5	

IQAC HEAD
CAREER MAHAVIDYALAYA
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INTERNAL EXAMINATION - II DUTY

Session 2022 -23

Sr.No.	Faculty Name	Room No.	Signature
1	Mr. Mahesh Kumar	3	*Mahesh*
2	Mrs. Rohini	5	*Rohi*
3	Ms. Naveen Sarwa	7	*Naveen*
4	Mr. Hemant Kumawat	4	
5	Mrs. Shivani Rajpurohit	2	*wani*
6	Mr. Shyamprakash	6	*Skash*
7	Mrs. Archana Sharma	1	*A*

IQAC HEAD
CAREER MAHAVIDYALAYA
DURANA, JHUNJHUNU (Raj.)

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CAREER MAHAVIDYALAYA
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Pre University Exam question Paper Record, 2022-23 (Unit-Ph)

S.No	Date	Shift	Class	Paper	Total Paper recieved	Library Copy	Examiner Copy	Remaining	Signature
1	06/01/2023	Morning	BSc I	Chemistry-I (Inorganic)	58	01	01	08	
2	06/01/2023	Morning	BSc II	Chemistry-I (Inorganic)	68	01	01	02	
3	06/01/2023	Morning	BSc III	Chemistry-I (Inorganic)	39	01	01	05	
4	06/01/2023	Evening	Msc(Pre) (Zool)	Paper I (Biosystematics & Taxonomy)	27	01	01	04	
5	06/01/2023	Evening	Msc(Pre) Physics	Paper I (Classical mechanics and mathematical method in Physics)	13	01	01	05	
7	06/01/2023	Evening	Msc(Pre) (Chemistry)	Paper I (Inorganic Chemistry)	09	01	01	03	
8	06/01/2023	Evening	Msc(Pre) Maths	Paper I (Advanced Abstract Algebra)	19	01	01	03	

IQAC HEAD
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Pre University Exam 2022-23

Date- 06/01/2023
Time:- 10:00-01:00pm
Morning Shift   BSc Part I, II, III   Subject/Paper-I

Room No	No of Copies	Name of Invigilator	Signature
01	24	Mahesh Kumar	
02	25	Rohini	Rohi
03	20	Naveen Sarwa	
04	20	Hemant	
05	16	Shivani Rajpurohit	
06	23	Shyam Prakash	
07	08	Archana Sharma	

Supervisor:-
   Kamlesh Kumar Saini
   Dr Pratibha
   Siddhartha Kalirawana

Internal flying:-
   Ramu Savita
   Mahesh Kumar Mahala

Date:- 06/01/2023   Pre university exam 2022-23
Time: 01:00 — 04:00pm   MSc Pre (Maths, Zool, Che, Physics)
Evening Shift

Room No	No of Copies	Name of Invigilator	Signature
01	21	Kamlesh Kumar Saini	
02	14	Siddhartha Kalirawana	
03	06	Naveen Sarwa	
04	04	Mahesh Kumar	

Supervisor:-
   Hemant
   Rohini
   Shyam Prakash

Internal flying:-
   Mahesh Kumar Mahala
   Ramu Savita

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Session-2022-23

Action Taken After the Result of Internal Examination

S.No.	For Weaker Learner	For Advanced Learner
1	Solving Question Paper	Assignment Given
2	Organizing Extra Classes	Organizing PPT Presentation on Given Topic
3	Problem Solving Classes	Organizing Group Discussion
4	Worksheet Given	
5	Assignment Given	
6	Organizing Class Test	
7	Organizing Oral Test	

Coordinator

(Examination)

IQAC HEAD
CAREER MAHAVIDYALAYA
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Session-2022-23

Internal Examination-I

Sr. No.	Date	Name of Students Submit grievance	Type of grievance	Action taken by committee
1	01/09/2022	MOHIT KUMAR JANGIR	Unable to Present in Internal Examination	Assignment will be given to absentees
2	01/09/2022	SACHIN	Unable to Present in Internal Examination	
3	01/09/2022	HARSH	Unable to Present in Internal Examination	
4	01/09/2022	SUHANI	Unable to Present in Internal Examination	
5	01/09/2022	PAYAL	Unable to Present in Internal Examination	
6	01/09/2022	PRAM PRAKASH	Unable to Present in Internal Examination	
7	01/09/2022	SHIVANSHU	Unable to Present in Internal Examination	
8	02/09/2022	ROHIT	Unable to Present in Internal Examination	
9	02/09/2022	YOGESH	Unable to Present in Internal Examination	
10	02/09/2022	DUSHYANT SINGH	Unable to Present in Internal Examination	
11	02/09/2022	SHAIL SAIN	Unable to Present in Internal Examination	
12	03/09/2022	LAXMI	Unable to Present in Internal Examination	
13	03/09/2022	AYASH	Unable to Present in Internal Examination	
14	03/09/2022	VARSHA	Unable to Present in Internal Examination	
15	03/09/2022	LAKSHAY	Unable to Present in Internal Examination	

Coordinator
(Examination)

IQAC HEAD
CAREER MAHAVIDYALAYA
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PRINCIPAL
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DURANA, JHUNJHUNU (Raj.)

Session-2022-23

Internal Examination-II

Sr. No.	Date	Name of Students Submit grievance	Type of grievance	Action taken by committee
1	14/09/2022	ANKIT KUMARI	Unable to Present in Internal Examination	Assignment will be given to absentees
2	14/09/2022	KHUSHI	Unable to Present in Internal Examination	
3	14/09/2022	SANDEEP KUMAR	Unable to Present in Internal Examination	
4	14/09/2022	PANKAJ KUMAR	Unable to Present in Internal Examination	
5	15/09/2022	ANOOP KUMAR	Unable to Present in Internal Examination	
6	15/09/2022	NIDHI	Unable to Present in Internal Examination	
7	15/09/2022	GANGADHAR DHAKA	Unable to Present in Internal Examination	
8	15/09/2022	PAWAN KUMAR SAINI	Unable to Present in Internal Examination	
9	15/09/2022	GAURAV LOYAL	Unable to Present in Internal Examination	
10	16/09/2022	SAHIL KHALIYA	Unable to Present in Internal Examination	
11	16/09/2022	SUMIT GODARA	Unable to Present in Internal Examination	
12	16/09/2022	PRATIBHA	Unable to Present in Internal Examination	

Coordinator

(Examination)

IQAC HEAD
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PRINCIPAL
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Faculty of Science

Time Table of Pre University Examination-2022-23

Date	B.Sc. Maths I	B.Sc. Bio I	B.Sc. MATHS II	B.Sc. Bio II	B.Sc. Maths III	B.Sc. BIO III
06/01/2023 1st Shift	Chemistry I	Chemistry I	Chemistry I	Chemistry I	Chemistry I	Chemistry I
06/01/2023 2nd Shift	Chemistry II	Chemistry II	Chemistry II	Chemistry II	Chemistry II	Chemistry II
07/01/2023 1st Shift	Chemistry III	Chemistry III	Chemistry III	Chemistry III	Chemistry III	Chemistry III
07/01/2023 2nd Shift	Physic I	Botany I	Physic I	Botany I	Physic I	Botany I
09/01/2023 1st Shift	Physic II	Botany II	Physic II	Botany II	Physic II	Botany I
09/01/2023 2nd Shift	Physic III	Botany III	Physic III	Botany III	Physic III	Botany III
10/01/2023 1st Shift	Maths I	Zoology I	Maths I	Zoology I	Maths I	Zoology I
10/01/2023 2nd Shift	Maths II	Zoology II	Maths II	Zoology II	Maths II	Zoology II
11/01/2023 1st Shift	Maths III	Zoology III	Maths III	Zoology III	Maths III	Zoology III

Co-ordinator

Principal

Faculty of science (PG)

Time Table of Pre University Examination – 2022-23

Date	Chemistry Previous	Physics Previous	Zoology Previous	Maths Previous
06/01/2023 1st Shift	Paper 1	Paper 1	Paper 1	Paper 1
06/01/2023 2nd Shift	Paper 2	-	Paper 2	Paper 2
07/01/2023 1st Shift	Paper 3	Paper 2	Paper 3	Paper 3
07/01/2023 2nd Shift	Paper 4	Paper 3	Paper 4	Paper 4
09/01/2023 1st Shift	Paper 5	-	Paper 5	-
09/01/2023 2nd Shift	Paper 6	Paper 4	Paper 6	Paper 5

Co-ordinator   Principal

IQAC HEAD
CAREER MAHAVIDYALAYA
DURANA, JHUNJHUNU (Raj.)

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Session-2022-23

Pre University Examination related Grievance and Action Taken

Sr. No.	Date	Name of Students Submit grievance	Type of grievance	Action taken by committee
1	06/01/2023	AJAY	Unable to Present in Pre University Exam	Extra classes will be conducted to make the absentees aware about the pattern of University examination or to attempt University Examination
2	06/01/2023	ALOK	Unable to Present in Pre University Exam	
3	06/01/2023	AMAN	Unable to Present in Pre University Exam	
4	06/01/2023	DAKSH CHOUDHARY	Unable to Present in Pre University Exam	
5	06/01/2023	AYUSH	Unable to Present in Pre University Exam	
6	06/01/2023	DEEPAK	Unable to Present in Pre University Exam	
7	06/01/2023	KHUSHI	Unable to Present in Pre University Exam	
8	06/01/2023	LOKESH	Unable to Present in Pre University Exam	
9	06/01/2023	ANMOL	Unable to Present in Pre University Exam	
10	07/01/2023	ASHISH	Unable to Present in Pre University Exam	
11	07/01/2023	ADITYA	Unable to Present in Pre University Exam	
12	07/01/2023	CHANDRAKALA	Unable to Present in Pre University Exam	
13	07/01/2023	DEEPAK YADAV	Unable to Present in Pre University Exam	
14	07/01/2023	ESHMIT	Unable to Present in Pre University Exam	
15	09/01/2023	AKSHAT MOGA	Unable to Present in Pre University Exam	
16	09/01/2023	DEEPAK KUMAR SAINI	Unable to Present in Pre University Exam	
17	09/01/2023	DIPESH	Unable to Present in Pre University Exam	

CO-ORDINATOR

(EXAMINATION)

IQAC HEAD
CAREER MAHAVIDYALAYA
DURANA, JHUNJHUNU (Raj.)

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CAREER MAHAVIDYALAYA

Affiliated to Pandit Deendayal Upadhyaya Shekhawati University, Sikar (Raj.)

Session-2022-23

Pre University Examination related Grievance and Action Taken

Sr. No.	Date	Name of Students Submit grievance	Type of grievance	Action taken by committee
18	10/01/2023	KIRAN	Unable to Present in Pre University Exam	Extra classes will be conducted to make the absentees aware about the pattern of University examination or to attempt University Examination
19	10/01/2023	PRINCE KULHARI	Unable to Present in Pre University Exam	
20	10/01/2023	MANEESH KUMAR	Unable to Present in Pre University Exam	
21	10/01/2023	RICHA	Unable to Present in Pre University Exam	
22	10/01/2023	PREM PRAKASH	Unable to Present in Pre University Exam	
23	11/01/2023	PREETI	Unable to Present in Pre University Exam	
24	11/01/2023	KARISHMA KUMARI	Unable to Present in Pre University Exam	
25	11/01/2023	SORABH JANGIR	Unable to Present in Pre University Exam	
26	11/01/2023	ANSU RAJ	Unable to Present in Pre University Exam	
27	11/01/2023	ROHIT SINGODIA	Unable to Present in Pre University Exam	
28	11/01/2023	SANDEEP	Unable to Present in Pre University Exam	

CO-ORDINATOR

(EXAMINATION)

IQAC HEAD
CAREER MAHAVIDYALAYA
DURANA, JHUNJHUNU (Raj.)

PRINCIPAL
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To,

The Principal,
Career Mahavidyalaya Durana
Jhunjhunu

Sub:- Application for not attend Pre university Exam

Respected Madam,

With due respect, I can'nt attend the Preuniversity examination due to Injury my head. I cannot able to come. So please grant me leave for two days.

Thank you

Date
18/01/2022

your obediently
Kirti

After Examination Assisment BSc II year will be continue

18/01/2022

IQAC HEAD
CAREER MAHAVIDYALAYA
DURANA, JHUNJHUNU (Raj.)

PRINCIPAL
DR. SHIKHA SAHAY
CAREER MAHAVIDYALAYA
DURANA, JHUNJHUNU (Raj.)

CAREER MAHAVIDYALAYA
JHUNJHUNU
DURANA

01592-297441, 7230011656, 9414741811
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www.careercollegejjn.com
Mandawa Road, DURANA, Jhunjhunu (Raj.) 333041

सेवा में,

श्रीमती आचार्या जी
करियर महाविद्यालय दुराना
झुन्झुनू

विषय :- Preuniversity exam नही देने हेतु!

महोदया,

अविनय नम्र निवेदन है कि मैं श्रीमत आपके महाविद्यालय का BSC तृतीय वर्ष का छात्र हूं मेरे घर पर जरूरी कार्य होने के कारण मैं परीक्षा नही दे सकता हूं।

अतः आपसे निवेदन है कि आप मुझे कुछ समय बाद परीक्षा देने की अनुमति प्रदान करें-

सधन्यवाद

आपकी अति कृपा होगी
आपका आज्ञाकारीशिष्य
मनोज कुमार
B SC III year

Date
7/01/2019

Arrange the Assisment
after the exam
team
7/01/2019

IQAC HEAD
CAREER MAHAVIDYALAYA
DURANA, JHUNJHUNU (Raj.)

PRINCIPAL
DR. SHIKHA SAHAY
CAREER MAHAVIDYALAYA
DURANA, JHUNJHUNU (Raj.)

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सेवा में

श्रीमती प्राचार्या जी
करियर महाविद्यालय, दुराना
झुंझुनूं (राज.)

विषय – Pre-University exam नहीं दे पाने के विषय हेतु।

महोदया,

मैं दिपेश आपके महाविद्यालय की B.SC III Year का छात्र हूँ। मेरे बड़े भाई की शादी होने के कारण मैं Pre-University exam में उपस्थित नहीं हो पाऊँगा। अतः आपसे निवेदन है कि मुझे कुछ समय बाद Pre-University exam दिलवाने की कृपा करें।

सधन्यवाद

दिनांक – 7/01/2023

हस्ताक्षर – Deepak

आपकी अति कृपा होगी।
आपका आज्ञाकारी शिष्य
नाम – दिपेश
कक्षा – B.SC. III Year

Pre examination Assesment will be contin

7/01/2023

IQAC HEAD
CAREER MAHAVIDYALAYA
DURANA, JHUNJHUNU (Raj.)

CAREER MAHAVIDYALAYA
JHUNJHUNU
DURANA

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सेवा में,
श्रीमती प्राचार्या जी
करियर महाविद्यालय दुराना
झुंझुनूं (राज.)

विषय – Pre-University Exam नहीं दे पाने के विषय हेतु।

महोदया,
मैं अजय आपके महाविद्यालय की B.Sc I Year का छात्र हूँ। मेरा स्वास्थ्य सही नहीं होने के कारण मैं Pre-University Exam में उपस्थित नहीं हो पाऊँगा।

अतः आपसे निवेदन है कि मुझे कुछ समय बाद Pre-University Exam दिलवाने की कृपा करें।

सधन्यवाद

दिनांक - 06/01/2023

हस्ताक्षर- Ajay

आपकी अति कृपा होगी।
आपका आज्ञाकारी शिष्य
नाम   – अजय
कक्षा   – B.Sc. I Year

Pre Examination Assessment will be continue
K. Saini
06/01/2023

IQAC HEAD
CAREER MAHAVIDYALAYA
DURANA, JHUNJHUNU (Raj.)

PRINCIPAL
DR. SHIKHA SAHAY
CAREER MAHAVIDYALAYA
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सेवा में,

श्रीमती प्राचार्या जी
करीयर महाविद्यालय पुराना
झुन्झुनू

विषय :- Pre University exam नहीं देने हेतु.

महोदया,

सविनय नम्र निवेदन है कि मैं अमन आपके महाविद्यालय का B.Sc प्रथम वर्ष का छात्र हूँ मेरे भाई की शादी 07/02/2023 को है अतः मैं 06/01/2023 को रसायन विज्ञान प्रथम वर्ष की परीक्षा नहीं दे सकता हूँ मैं यह परीक्षा कुछ समय बाद देना चाहता हूँ आप मुझे इसकी अनुमति प्रदान करें।

धन्यवाद

Date
06/01/2020

Pre University exam
will be continue
Rohi
06/01/2020

आपका आज्ञाकारी शिष्य
आनन्द कुमार
B.Sc I year

IQAC HEAD
CAREER MAHAVIDYALAYA
DURANA, JHUNJHUNU (Raj.)

PRINCIPAL
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To,
The Principal
Career College
Durana, JJN (Raj.)

Sub - Application for Leave.

Respected maam

I am regular student of your college but due to family function I'll not be able to gives internal exams. so kindly grant me permission for the same.

Thankyou

Your obedently

Date - 17/08/2019

Name — Amisha
Class — B.sc. I Year

Kindly arreange Internal examination in next year

17/08/2019

सेवा में,

श्रीमती आचार्याजी

करियर महाविद्यालय दुराना

झुन्झुनु

विषय :— Internal exam नही देने हेतु।

महोदया,

स्वविनय निवेदन है कि मैं मोहित कुमार आपके महाविद्यालय का BSc I year का छात्र हूँ मेरे डेंगू होने के कारण मैं यह परीक्षा नही दे सकता हूँ अतः आप मुझे छुट्टी देने की अनुमति प्रदान करें

आपका अति कृपा हो
प्रार्थी

Date :— 1/09/2022

मोहित कुमार
BSc I year

Kmedly arrangement.
assesment after
Reexamination

Teena
1/09/2022

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To

The Principal

career science College

Durana, JJN (Raj)

Subject :- Application for leave.

Respected maam,

I am Regular student of your college but due to some personal Family Issue I'll not be able to give Internal Exam so kindly grant me Permission for the same.

Thanking You:

your obediently

Name - Manoj Kumar

class - B.Sc. III Year

Date - 29/8/2018

Kindly arrangement assesment Loans in next year

Naveen
29/8/2018

IQAC HEAD
CAREER MAHAVIDYALAYA
DURANA, JHUNJHUNU (Raj.)

PRINCIPAL
DR. SHIKHA SAHAY
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TO

The Principal
Career College
Durana

Sub:- Can'nit attened internal examination

Respected madam,

I am student of your
College in Bsc II year. I am going to my
village for my sister marriage, so I
can'nit attend the internal examination.
So kindly grant me leave for
one day.

Thanking you

your obediently

Date:- 22/10/2021

Kindly arrange Internal Usha Vikash
Examination in next Bsc II year
year

Arvind
22/10/2021

IQAC HEAD
CAREER MAHAVIDYALAYA
DURANA, JHUNJHUNU (Raj.)

CAREER MAHAVIDYALAYA
JHUNJHUNU
DURANA

PRINCIPAL
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To

The Principal
Career Science College
Durana, Jhunjhunu
(Raj.)

Sub. → Internal Examenation Leave

Respected madam,

I am regular student of Your College, I can not give Internal Examination due to urgent work at home.

Thanking you

Date - 2/09/2022

Timely arrangement assessment After examination

2/09/2022

Your obediently
Dushyant Singh
B.Sc III Year

IQAC HEAD
CAREER MAHAVIDYALAYA
DURANA, JHUNJHUNU (Raj.)

CAREER MAHAVIDYALAYA
JHUNJHUNU
DURANA

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Department of Zoology
Intrnal Exam Unit-I
B.Sc. Part – I

Paper – I (Diversity of Animals)

Sec-A

1. जाती को परिभाषित कीजिए।

   Define species.
2. संघ निडेरिया के दो विशिष्ट लक्षण लिखिये।

   Write characteristic features of the Phylum cnidaria.
3. फेस्मिड क्या होते है व कहां पाये जाते है?

   What are phesmid and where are they found.
4. इन्सेक्टा वर्ग की विशेषता लिखिये।

   Write any five main features of phylum Mollusca.

Sec-B

1. जन्तुओं का वर्गीकरण व सममिति विषय पर एक निबन्ध लिखिए।
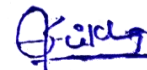
   Write an essay on the classification and symmetry of animals.
2. यूरोकार्डेटा के प्रमुख लक्षण लिखते हुए उदाहरण बताइए।

   Write the main features of urochordata and give example.
3. संक्षिप्त टिप्पणी (short notes)

   A. सममिति (symmetry)

   B. भ्रूणोद्भवन (embryogenesis)

***

IQAC HEAD
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Department of Mathematics

Intrnal Exam Unit-I

B.Sc. Part – III

Q 1. एक छल्ला, जो कि एक पतली लम्बी चिकनी छड़ पर फिसल सकता है, छड़ के एक सिरे 0 से d दूरी पर स्थित है। छड़ को एक समान रूप, बिन्दू 0 के सापेक्ष एक क्षैतिज तल में घुमाया जाता है। सिद्ध कीजिए कि छल्ला वक्र $r = d\cosh\theta$ में घूमता है।

A ring, which can slide on a thin smooth rod, rests at a distance from one end 0 of the rod. The rod is then set revolving uniformly about 0 in a horizontal plane. Show that the ring describes the curve $r = d\cosh\theta$.

Q 2. एक कण एक वक्र में इस प्रकार चलता है कि इसके स्पर्श रेखीय तथा अभिलाम्बिक त्वरण सदा समान रहते है और इसकी स्पर्श रेखा का कोणीय वेग अचर रहता है। पथ ज्ञात कीजिए।

A Particle moves in a curve so that its tangential and normal accelerations are equal and the angular velocities of the tangent are constant. Find the Path.

Q 3. एक भारहीन प्रत्यास्थ डोरी जिसकी जिसकी स्वाभाविक लम्बाई l है, एक सिरे से लटकाई जाती है तथा दूसरे सिरे से दो विभिन्न कण जिनकी संहति m_1 तथा m_2 है, बांधे गये है, यदि इनके संगति आवर्तकाल t_1 तथा t_2 हो तथा c_1, c_2 इनके लिए स्थैतिक विस्तार हो, सिद्ध करो कि $g(t_1{}^2 - t_2{}^2) = 4\pi^2(c_1 - c_2)$
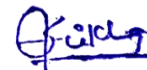
A light elastic string of natural length is l is hung by one end and to the other end tied successively Particles of masses m_1 and m_2. If t_1 and t_2 be the Periods c_1 and c_2 the statical extensions corresponding to these two weights Prove that
$$g(t_1{}^2 - t_2{}^2) = 4\pi^2(c_1 - c_2)$$
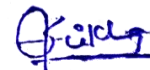
Q 4. एक कण किसी वृत के व्यास पर अचर वेग से चलता है और एक अन्य कण विरामवस्था से अर्ध परिधि AB पर एक समान स्पर्श रेखीय त्वरण से चलता है। यदि वे A से एक साथा रवाना होते है और B पर साथ–साथ ही पहुँचते है। सिद्ध करो कि B पर उनके वेग $\pi : 1$ अनुपात में होंगे।

One Point describes the diameter AB of a circle with constant velocity and another semi-circumference AB from rest with constant tangential acceleration. If they start together from A and arrive together at B. Show that the velocities at B are in the ratio : 1 .

***

IQAC HEAD
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DURANA, JHUNJHUNU (Raj.)

PRINCIPAL
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DURANA, JHUNJHUNU (Raj)

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पंडित दीनदयाल उपाध्याय शेखावाटी विश्वविद्यालय, सीकर

वेबसाईट: www.shekhauni.ac.in   ई—मेल: reg.shekhauni@gmail.com

क्रमांक:– 5523

दिनांक: 01/06/2023

स्नातक स्तर के नियमित परीक्षार्थियों की प्रायोगिक परीक्षा 2023
(वंचित रहे/विलम्ब से आवेदन करने वाले परीक्षार्थियों हेतु अन्तिम अवसर)

स्नातक स्तर के ऐसे नियमित परीक्षार्थी जो प्रायोगिक परीक्षा देने से वंचित रह गये हैं या विलम्ब से परीक्षा आवेदन करने के कारण वंचित रह गये हैं, को सूचित किया जाता है कि वे दिनांक 05 जून 2023 से 06 जून 2023 तक निम्नलिखित केन्द्रों पर अंकित विवरण के अनुसार अपनी प्रायोगिक परीक्षा पूर्ण कर सकते हैं। यह इन परीक्षार्थियों हेतु अन्तिम अवसर है। इस तिथि के पश्चात् भी यदि कोई स्नातक स्तर का नियमित परीक्षार्थी प्रायोगिक परीक्षा से वंचित रहता है तो परीक्षार्थी की स्वयं की जिम्मेदारी होगी।

Sr. No	Centre Code & Name	Practical Subject	Students
1	(343) Govt. Arts College, Sikar	Geography	All students of Sikar District
2	(192) R.R.M. Govt. College, Jhunjhunu	Science/ Geography	All students of Jhunjhunu District
3	(359) Govt. Science College, Sikar	Science	All students of Sikar District
4	(210) Govt. College, Khetri	Home Science	All students of Jhunjhunu District
		Psychology	All students of Jhunjhunu & Sikar District
5	(336) Govt. Girls College, Neem ka Thana	Home Science	All students of Sikar District
6	(378) Shekhawati Institute, Sikar	Drawing & Painting	All students of Sikar & Jhunjhunu District

उपर्युक्त परीक्षार्थियों को पूर्व में जारी किया हुआ मुख्य परीक्षा का प्रवेश पत्र ही मान्य होगा। परीक्षार्थी साथ में स्वयं के महाविद्यालय द्वारा जारी परिचय पत्र लायें। उपर्युक्त महाविद्यालयों के प्राचार्यों से आग्रह किया है कि ऐसे वंचित रहे परीक्षार्थियों की प्रायोगिक परीक्षा सम्पन्न करवाना सुनिश्चित करावें।
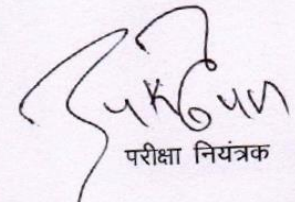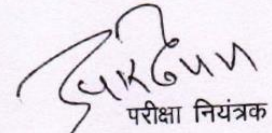
परीक्षा नियंत्रक

दिनांक:– 01/06/2023

क्रमांक:– 5524 – 5527

प्रतिलिपि :–
1. निजी सचिव, कुलपति।
2. निजी सहायक, कुलसचिव।
3. लेखा एवं वित्त विभाग।
4. प्राचार्य, समस्त महाविद्यालय।
5. रक्षित पत्रावली।

परीक्षा नियंत्रक

IQAC HEAD
CAREER MAHAVIDYALAYA
DURANA, JHUNJHUNU (Raj.)

PRINCIPAL
DR. SHIKHA SAHAY
CAREER MAHAVIDYALAYA
DURANA, JHUNJHUNU (Raj.)

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🌐 www.careercollegejjn.com
📍 Mandawa Road, DURANA, Jhunjhunu (Raj.) 333041

पंडित दीनदयाल उपाध्याय शेखावाटी विश्वविद्यालय, सीकर

वेबसाईट: www.shekhauni.ac.in   ई–मेल: reg.shekhauni@gmail.com

क्रमांक:– 5523

दिनांक: 01/06/2023

स्नातक स्तर के नियमित परीक्षार्थियों की प्रायोगिक परीक्षा 2023
(वंचित रहे / विलम्ब से आवेदन करने वाले परीक्षार्थियों हेतु अन्तिम अवसर)

स्नातक स्तर के ऐसे नियमित परीक्षार्थी जो प्रायोगिक परीक्षा देने से वंचित रह गये हैं या विलम्ब से परीक्षा आवेदन करने के कारण वंचित रह गये हैं, को सूचित किया जाता है कि वे दिनांक 05 जून 2023 से 06 जून 2023 तक निम्नलिखित केन्द्रों पर अंकित विवरण के अनुसार अपनी प्रायोगिक परीक्षा पूर्ण कर सकते हैं। यह इन परीक्षार्थियों हेतु अन्तिम अवसर है। इस तिथि के पश्चात् भी यदि कोई स्नातक स्तर का नियमित परीक्षार्थी प्रायोगिक परीक्षा से वंचित रहता है तो परीक्षार्थी की स्वयं की जिम्मेदारी होगी।

Sr. No	Centre Code & Name	Practical Subject	Students
1	(343) Govt. Arts College, Sikar	Geography	All students of Sikar District
2	(192) R.R.M. Govt. College, Jhunjhunu	Science/ Geography	All students of Jhunjhunu District
3	(359) Govt. Science College, Sikar	Science	All students of Sikar District
4	(210) Govt. College, Khetri	Home Science	All students of Jhunjhunu District
		Psychology	All students of Jhunjhunu & Sikar District
5	(336) Govt. Girls College, Neem ka Thana	Home Science	All students of Sikar District
6	(378) Shekhawati Institute, Sikar	Drawing & Painting	All students of Sikar & Jhunjhunu District

उपर्युक्त परीक्षार्थियों को पूर्व में जारी किया हुआ मुख्य परीक्षा का प्रवेश पत्र ही मान्य होगा। परीक्षार्थी साथ में स्वयं के महाविद्यालय द्वारा जारी परिचय पत्र लायें। उपर्युक्त महाविद्यालयों के प्राचार्यों से आग्रह किया है कि ऐसे वंचित रहे परीक्षार्थियों की प्रायोगिक परीक्षा सम्पन्न करवाना सुनिश्चित करावें।
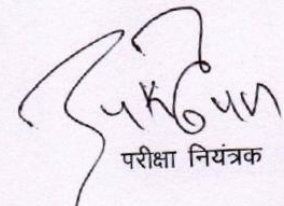
परीक्षा नियंत्रक

क्रमांक:– 5524 – 5527
प्रतिलिपि :–
1. निजी सचिव, कुलपति।
2. निजी सहायक, कुलसचिव।
3. लेखा एवं वित्त विभाग।
4. प्राचार्य, समस्त महाविद्यालय।
5. रक्षित पत्रावली।

दिनांक:– 01/06/2023

परीक्षा नियंत्रक

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CAREER MAHAVIDYALAYA

Durana, Jhunjhunu, Pin : 333001

M.Sc. (Previous) - Physics

Pre University Exam(2022-23)

Paper-IV

(Electronics, Numerical methods and Computer Programming)

Time : 03:00 Hr.

Marks : 100

Note (1)   Attempt five Questions in all.

कुल मिलाकर पाँच प्रश्न हल करें।

(2)   No Supplementary answer-book will be given to any candidate. Hence the candidates should write the answer precisely in the main answer book only.

किसी भी अभ्यर्थी को कोई पूरक उत्तरपुस्तिका नहीं दी जाएगी। अतः अभ्यर्थियों को मुख्य उत्तर पुस्तिका में ही सटीक उत्तर लिखना चाहिए।

(3)   All the parts of one question should be answered at one place in the answer book. One complete question should not be answered at different places in the answer book.

एक प्रश्न के सभी भागों का उत्तर पुस्तिका में एक ही स्थान पर दिया जाना चाहिए। एक पूर्ण प्रश्न का उत्तर पुस्तिका में अलग—अलग स्थानों पर नहीं देना चाहिए।

Q.1. (a) What is a differential amplifier? Explain Common mode and difference mode working of differential amplifier? **(10)**

(b) How can you explain Op-amp? Describe inverting and non-inverting operational amplifier. **(10)**

OR

(a) What do you mean by input bias current? Derive an express of output offset voltage due to input bias current and calculate the value of offset minimizing resistor (Rom).

(b) An inverting amplifier using 741 c must have a flat response up to 40KHz. The gain of amplifier is 10. What maximum peak to input signal can be applied without distorting the input.

Q.2.(a) Draw circuit diagram of phase shift oscillator. Analyse circuit to obtain expression for frequency of oscillations. How frequency stability can be achieved oscillator. **(10)**

(b) A wein bridge oscillators is to cover a frequency range from 20Hz to 20KHz Variable capacity range is from 30PF to 300PF. Calculate the required resistance if gain of amplifier is . **(10)**
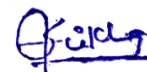
OR

(a) What are multi vibrator circuits? Draw circuit diagram of Astable multi vibrator and explain working. Obtain formula for frequency of wave from.

(b) Drawn the circuit diagram and explain the working of wien bridge oscillator.

Q.3. **(a)** State and Prove De-morgan's Theorem. **(10)**

(b) Explain the working of a JK Flip flop. Describe its merits our clocked Rs flip.

(10)

OR

(a) Write a program in FORTRAN-77 to bita straight line from any data using least square analysis.

(b) Explain in FORTRAN-77.

(i) FORTRAN-77	(ii) Branching	(iii) Jumping
(iv) Looping	(v) Nesting and	(vi) Subroutine

Q.4. **(a)** Compute the error in the evolution of **(10)**

$$\int_0^{5.2} \log x \, dx$$

(b) Find energy eigan values and eigan vectors of the following matrix- **(10)**

$$A = \begin{bmatrix} 5 & 0 & 1 \\ 0 & -2 & 0 \\ 1 & 0 & 5 \end{bmatrix}$$

OR

(a) Find a real root of the equation $x = e^x$ using the Newton-Raphson method.

(b) Write an algorithm to solve the system of non-linear equations of Newton-Raphson method.

Q.5. **(a)** Write a program in FORTRAN-77 to find the integral function by Trapezoidal rule. **(10)**

(b) Explain the following terms related to computer. **(10)**

(i) CPU	(ii) ALU	(iii) RAM	(iv) ROM

OR

(a) Solve $\frac{dy}{dx} = \frac{1}{x+y}$ for $x = 0.5$ to $x = 2$ $(h = 0.5)$ by using Runge kutta method with $x_0 = 1, y_0 = 1$
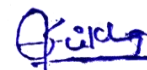
Write a programme to fit a straight line from given data using least square analysis.

CAREER MAHAVIDYALAYA

Durana, Jhunjhunu, Pin : 333001

B.Sc. Part – III

Pre University Exam(2022-23)

Paper-III

(Taxonomy & Embryology of Angiosperm)

Time : 03:00 Hr.   Marks : 33

Note (1) Attempt all Questions From Section A
अनुभाग ए से सभी प्रश्नों का प्रयास करें।

(2) Answer total of four Questions from Section B, Choosing one Question from each unit.
प्रत्येक इकाई से एक प्रश्न चुनकर, खंड बी से कुल चार प्रश्नों के उत्तर दें।

(3) No Supplementary answer-book will be given to any candidate. Hence the candidates should write the answer precisely in the main answer book only.
किसी भी अभ्यर्थी को कोई पूरक उत्तरपुस्तिका नहीं दी जाएगी। अतः अभ्यर्थियों को मुख्य उत्तर पुस्तिका में ही सटीक उत्तर लिखना चाहिए।

4) All the parts of one question should be answered at one place in the answer book. One complete question should not be answered at different places in the answer book.
एक प्रश्न के सभी भागों का उत्तर पुस्तिका में एक ही स्थान पर दिया जाना चाहिए। एक पूर्ण प्रश्न का उत्तर पुस्तिका में अलग—अलग स्थानों पर नहीं देना चाहिए।

(Section-A)

(9)

Q 1. What is bilabiate corola?
द्विओष्ठी दलपुंज किसे कहते है?

Q 2. What is phylogenetic classification?
जातिवृत्ति वर्गीकरण क्या है?

Q 3. Write the name of any two Herbarium.
भारत के दो मुख्य हरबेरियम के नाम लिखिए।

Q 4. What is mother axis?
मातृ अक्ष क्या है?

Q 5. What do you understand and by endosperm is haustoria.
भ्रूणपोष चूषकांग के बारे में आप क्या जानते है?

Q 6. What is translator?
स्थानान्तरक क्या है?

Q 7. Define Apomixis.
असंगजनन को परिभाषित कीजिए।

Q 8. Define apogamy.
अपयुग्मन की परिभाषा दीजिए।

Q 9. Write the inflorescence of family Apiaceae.
एपिऐसी कुल का पुष्पक्रम लिखिए।

(Section-B)
Unit-I

Q 1. Describe breiefly the salient features of Bentham & Hooker. (6)
बेन्थम एवं हुकर द्वारा प्रतिपादित पादप का वर्गीकरण के मुख्य लक्षणों का संक्षेप में वर्णन कीजिए।

OR

Write short note on. संक्षिप्त लेख लिखिए

(a) Placentation in Ranunculaceae.
रेननकुलेरी में बीजाण्डन्यास

(b) Rules of Botanical Nomenclature
वानस्पतिक नाम पद्धति के नियम

Unit-II

Q 2. Describe floral variations found in family Acanthaceae illustrate your answer with suitable diagram.
एकेन्थेसी कुल की पुष्प संरचना में विविधताओं का सचित्र वर्णन कीजिए। (6)

OR

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Write families floral formula of following genera.

निम्न वंशो के कुल व पुष्पीय सूत्र बताइये

(a) Tricum ट्रिटिकम

(b) Helianthus हेली एन्थस

(c) Euphorbia यूफॉर्बिया

(d) Ocimum ओसिमम

(e) Calotropis केलोट्रोपिस

Unit-III

Q 3. What do you mean by Megasporogenesis? with the help of suitable diagrams describe the various stages of development of female gametophyte in angiosperms.

गुरूबीजाणुजनन से आप क्या समझते है? उचित चित्रों की सहायता से आवृतबिजयों में मादा युग्मकोद्भिद के विकास की विभिन्न अवस्थाये लिखिए। **(6)**

OR

Write short note on संक्षिप्त लेख लिखिए -

(a) Microsporogenesis

लघुबीजाणु जनन

(b) Tapetum

टेपीटम

Unit-IV

Q 4. What is Endo sperm? Describe different type of Endo sperm found in angiosperm.

भ्रूणपोष क्या है? आवृतबीजी पादपों में मिलने वाले भ्रूणपोषो का वर्णन कीजिए। **(6)**

OR

Describe briefly संक्षेप में बताइये -

(c) Poly Embroyony बहुभ्रूणता

(d) Embryo development in dicotyledons द्विबिजापत्रियों में भ्रूण का विकास

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Durana, Jhunjhunu, Pin : 333001

B.Sc. Part – I

Pre University Exam(2022-23)

Paper – II (Calculus)

Time : 03:00 Hr.   Marks : 40

Note (1)   Attempt Five Question in all

कुल मिलाकर पाँच प्रश्न हल करें ।

(2)   No Supplementary answer-book will be given to any candidate. Hence the candidates should write the answer precisely in the main answer book only.

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3)   All the parts of one question should be answered at one place in the answer book. One complete question should not be answered at different places in the answer book.

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Unit –I

1. (a) निम्नलिखित श्रेणी के अभिसरण की जाँच कीजिए।

Examine the following series for convergence.

$$1 + \frac{1^1}{2^2} + \frac{2^2}{3^3} + \frac{3^3}{4^4} + \underline{\quad}$$

(b) निम्नलिखित श्रेणी के अभिसरण की जाँच कीजिए।

Test the convergence of the following series.

$$1 + \frac{2x}{2!} + \frac{3^2 x^2}{3!} + \frac{4^3 x^3}{4!} + \underline{\quad}$$

OR

2. (a) सिद्ध कीजिए कि निम्नलिखित श्रेणी सप्रतिबंध अभिसारी है।

Show that the following series is conditionally convergent.

$$\sum \frac{(-1)^{n-1}}{(\sqrt{n} + \sqrt{a})^2}$$

(b) निम्न फलन का विस्तार कीजिए।

Find the expansion of the following function.

$$f(x) = sinx \quad ; \qquad x \in R$$

Unit –II

3. (a) निम्न वक्र के लिए $\frac{ds}{dt}$ ज्ञात कीजिए।

Find $\frac{ds}{dt}$ for the following curve.

$$xsint + ycost = f'(t)$$
$$xcost - ysint = f''(t)$$

(b) कार्डिऑइड $r = a(1 + cos\theta)$ के ध्रुव से गुजरने वाली वक्रता जीवा की लम्बाई ज्ञात कीजिए। Find the length of chord of curvature through the pole of the cardioid

$$r = a(1 + cos\theta)$$

OR

4. (a) यदि (If) $u = tan^{-1}\left(\frac{y^2}{x}\right)$ है तो सिद्ध कीजिए कि (Prove that)

$$x^2 \frac{\partial^2 u}{\partial x^2} + 2x \frac{\partial^2 u}{\partial x \partial y} + y^2 \frac{\partial^2 u}{\partial y^2} = -sin2u sin^2 u$$

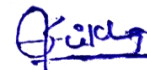(b) यदि (If) $u = f(r)$, जहाँ (Where) $r^2 = x^2 + y^2$ तो सिद्ध कीजिए कि (then prove that)

$$\frac{x^2 \partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} = f''(r) + \frac{1}{r} f'(r)$$

5. (a) उन बिन्दुओं को ज्ञात कीजिए जहाँ फलन $x^3 + y^3 - 3axy$ का मान उच्चतम या न्यूनतम है।

Find the points where the function $x^3 + y^3 - 3axy$ has maximum value.

(b) निम्न वक्र की अनन्त स्पर्शिया ज्ञात कीजिए।

Find the asymptotes of the following curve

$x^3 - 5x^2y + 8xy^2 - 4y^3 + x^2 - 3xy + 2y^2 - 1 = 0$

OR

6. (a) निम्न वक्र के द्विक बिन्दुओं की स्थिति एवं प्रकृति ज्ञात कीजिए।

Find the nature and position of double points of the curve.

$x^3 - y^2 - 7x^2 + 4y + 15x - 13 = 0$

(b) निम्न वक्र का अनुरेखण कीजिए।

Trace the following curve.

$y^2(a + x) = x^2(a - x)$

Unit –IV

7. (a) सिद्ध कीजिए। (Prove that)

$$\int_0^\infty \sqrt{x}\, e^{-x^2} dx \times \int_0^\infty \frac{e^{-x^2}}{\sqrt{x}} dx = \frac{\pi}{2\sqrt{2}}$$

(b) मान ज्ञात कीजिए।(Evacuate)

$$\iint_R xy(x + y)\,dxdy$$

Where R is the region of integration between the parabola $y = x^2$ and line $y = x$

जहाँ समाकलन का क्षेत्र परवलय $y = x^2$ तथा रेखा $y = x$ के मध्य का क्षेत्र है।

OR

8. (a) निम्न समाकलन का क्रम बदलकर मान ज्ञात कीजिए।

Evaluate the following integral by changing the order of integration.

$$\int_0^1 \int_x^{\sqrt{2-x^2}} \frac{x}{x^2 + y^2}\,dxdy$$

(b) सिद्ध कीजिए। (Prove that)

$$\iiint_v x^{l-1}y^{m-1}z^{n-1}\,dxdydz = \frac{\sqrt{l}\,\sqrt{m}\,\sqrt{n}}{\sqrt{(l + m + n + 1)}}$$

जहाँ (where) $x \geq 0, y \geq 0, z \geq 0, x + y + z \leq 1$

9. (a) निम्न वक्रों का उभयनिष्ठ क्षेत्रफल ज्ञात कीजिए।

Find the area common to the following curve.

$r = a, r = a(1 + cos\theta)$

(b) $\theta = 0$ से $\theta = \frac{\pi}{2}$ तक वक्र $x = e^\theta sin\theta, +x = e^\theta cos\theta$ चाप की लम्बाई ज्ञात कीजिए।

Find the lenth of the arc of the curve.

$x = e^\theta sin\theta, x = e^\theta cos\theta$ between $\theta = 0$ to $\theta = \frac{\pi}{2}$

OR

10. (a) वक्र $(a - x)y^2 = a^2 x$ को उसकी अनन्त स्पर्शी के चारो ओर घुमाने से जनित ठोस का आयतन ज्ञात कीजिए।

Find the volume of the solid generated by the revolution of the curve $(a - x)y^2 = a^2 x$ about its asymptote.

(b) एस्ट्रॉइड $x = acos^3 t, y = asin^3 t$ द्वारा $x -$ अक्ष के परित परिक्रमण से जनित घनाकृति का पृष्ठीय क्षेत्रफल ज्ञात कीजिए।

Find the surface area of the solid generated by the revolution of the asteroid $x = acos^3 t, y = asin^3 t$ about the x-axis.

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5121/20/3/25

PANDIT DEENDAYAL UPADHYAYA SHEKHAWATI UNIVERSITY, SIKAR (RAJ.)
SCIENCE, PROGRAMME OF EXAMINATION - 2023
(Regular, Ex-and Non-Collegiate)

01/01

Date	Day	PART- III TIME 07 A.M. TO 10:00 A.M.	PART- I TIME 11:00 A.M. TO 02.00 P.M	PART- II TIME 3.00 P.M. TO 06.00 P.M.
8/4/2023	SATURDAY			COMPUTER APPLICATION-I (REG)
10/4/2023	MONDAY			COMPUTER APPLICATION-II (REG)
11/4/2023	TUESDAY		CHEMISTRY-I	
12/4/2023	WEDNESDAY	CHEMISTRY-I		ZOOLOGY/MATHEMATICS-I
13/4/2023	THURSDAY		CHEMISTRY-II	
15/4/2023	SATURDAY	CHEMISTRY-II		ZOOLOGY/MATHEMATICS-II
17/4/2023	MONDAY		CHEMISTRY-III	ECONOMICS-I
18/4/2023	TUESDAY	CHEMISTRY-III	GENERAL ENGLISH	ZOOLOGY/MATHEMATICS-III
19/4/2023	WEDNESDAY			GEOGRAPHY-I (REG/NC)
20/04/2023	THURSDAY	ZOOLOGY/MATHEMATICS-I	ECONOMICS-I	
21/04/2023	FRIDAY		PHYSICS/BOTANY-I	
24/04/2023	MONDAY			CHEMISTRY-I
25/04/2023	TUESDAY	ZOOLOGY/MATHEMATICS-II	PHYSICS/BOTANY-II	GEOGRAPHY-II (REG/NC)
26/04/2023	WEDNESDAY			CHEMISTRY-II
27/04/2023	THURSDAY	ZOOLOGY/MATHEMATICS-III	GEOLOGY-I	ECONOMICS-II
28/04/2023	FRIDAY		GEOLOGY-II	CHEMISTRY-III
1/5/2023	MONDAY	PHYSICS/BOTANY-I		GEOLOGY-I
2/5/2023	TUESDAY		COMPUTER APPLICATION-I (REG)	
3/5/2023	WEDNESDAY	PHYSICS/BOTANY-II	PHYSICS/BOTANY-III	
4/5/2023	THURSDAY	GEOGRAPHY-I (REG/NC)		
5/5/2023	FRIDAY	PHYSICS/BOTANY-III	ENVIRONMENTAL STUDIES (REG)	
6/5/2023	SATURDAY		ZOOLOGY/MATHEMATICS-I	GEOLOGY-II
8/5/2023	MONDAY	GEOGRAPHY-II (REG/NC)	COMPUTER APPLICATION-II (REG)	
9/5/2023	TUESDAY	GEOLOGY-I	ZOOLOGY/MATHEMATICS-II	
10/5/2023	WEDNESDAY		ECONOMICS-II	PHYSICS/BOTANY-I
11/5/2023	THURSDAY	GEOLOGY-II	GEOGRAPHY-I (REG/NC)	
12/5/2023	FRIDAY		GENERAL HINDI	PHYSICS/BOTANY-II
13/05/2023	SATURDAY	COMPUTER APPLICATION-I (REG)		
15/05/2023	MONDAY	COMPUTER APPLICATION-II (REG)	ELE.COMPUTER (REG)	PSYCHOLOGY-I (REG/NC)
16/05/2023	TUESDAY		ZOOLOGY/MATHEMATICS-III	PHYSICS/BOTANY-III
17/05/2023	WEDNESDAY		GEOGRAPHY-II (REG/NC)	
18/05/2023	THURSDAY	ECONOMICS-I		PSYCHOLOGY-II (REG/NC)
19/05/2023	FRIDAY	ECONOMICS-II		

Notes: 1. No guarantee is given to the candidates regarding the order of question papers.

2. Complaints against question paper(s), if any, should be submitted to the University through the Centre Superintendent concerned alongwith the copy of the question paper, within a week from the date of examination for the paper concerned, after which no complaint will be entertained.

SIKAR   DATE :- 20/03/2023   Controller of Examination