MANAV RACHNA UNIVERSITY

MANAV RACHNA UNIVERSITY

DEPARTMENT OF EDUCATION & HUMANITIES

"End Term Examination, Jan-June-2023"

SEMESTER	**2nd**	**DATE OF EXAM**	25.5.2023
SUBJECT NAME	**Learning & Teaching**	**SUBJECT CODE**	EDH 121-T
BRANCH	**Education**	**SESSION**	II
DURATION	01:00 – 4:00 PM	**MAX. MARKS**	**80**
PROGRAM	**B Ed**	**CREDITS**	**3**
NAME OF FACULTY	**Dr Rashee Singh**	**NAME OF COURSE COORDINATOR**	**Dr Rashee Singh**

Note: Part-A: All the questions are compulsory in Part A.
Part-B:Please attempt any 2 out of 3 questions.
Part- C: Please attempt any 4 out of 5 questions.

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	Describe the importance of skills a teacher possess effect his teaching.	2	1	2	
	1(B)	Differentiate between technique and strategy.	2	1	4	
	1(C)	Discuss with example Digital Teaching Aids.	2	2	3	
	1(D)	Enumerate the categories of Flanders Interaction Analysis.	2	2	2	
	1(E)	Explain the use of ICT in learning and teaching.	2	3	5	
	1(F)	Analyze the scope of teaching aids in education.	2	1	4	
	1(G)	Explain with an example the scope of Education Technology.	2	4	4	
	1(H)	List 2 examples each of different types of Intelligence test.	2	3	1	
	1(I)	Explain the importance of student centered approach in today's classroom.	2	5	5	

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	1(J)	Write the components of Communication process.	2	5	1	
PART-B	Q2	Discuss in detail Abram Maslow's Motivation theory with implications.	10	1	4	
	Q3	Explain the ways in which the teacher can foster creativity in children, briefly explain 2 creative teaching ways which can be used in the classroom.	10	2	4	
	Q4	Discuss in detail the Big Five theory of Personality.	10	5	2	
PART-D	Q 5	Discuss in detail the Principles and Maxim's of Teaching.	5	5	2	
	Q6(A)	Appraise the concept of e-learning and its benefits for students in detail.	5	4	5	
	Q6(B)	Compare the 3 approaches of education technology in teaching.	10	5	4	
	Q 7	Elaborately discuss Flanders Interaction Analysis with matrix.	10	3	6	
	Q 8	Examine the similarities and dissimilarities of Open and Distance Education.	10	5	4	
	Q 9	Discuss in detail the process of communication with reference to types, principles and barrier in communication.	10	5	2	

********** END **********

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DEPARTMENT OF EDUCATION AND HUMANITIES

EVEN SEMESTER (JAN MAY 2023)

QUESTION PAPER STRUCTURE (QPS)

FACULTY NAME: RIDHI KHANNA			NAME OF COURSE COORDINATOR: RIDHI KHANNA		
COURSE NAME: ASSESSMENT FOR LEARNING	COURSE CODE: EDH 122-T	CREDIT: 4	MAX. MARKS: 80	TIME DURATION: 3 HRS (01:00-04:00)	DATE OF EXAM: 29.5.2023
PROGRAM: B.Ed		SEMESTER: II			

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
		Instructions: PART A- Attempt all questions, **PART B - Attempt all Question**				
PART-A	Q1	Justify the statement" Group sinks or swim together". As a teacher, what are the key consideration of good practice of group assessment.	5	CO2	BT4	
	Q2	Discuss the Projective Techniques for collection Qualitative Data.	5	CO3	BT2	
	Q3	Discuss the five dimension of learning?	5	CO1, CO3	BT4	
	Q4	"No detention" does not mean "no assessment". In view of CCE justify the statement	5	CO6	BT3	
	Q5	Comment on" Teamwork divides the task and multiples the success". According to Tuckman's Model, illustrate the stages of group formation?	2+3	CO6	BT2	
	Q6	Justify the statement" Growth begins when we start to accept our own weakness". Develop a Peer Assessment Schedule of an assessment task?	5	CO6	BT4	
	Q7(A)	In the view of learner perspective, comment on "Good feedback is key to improvement". Discuss the role of stakeholder in feedback process	2+3	CO5	BT3	
	Q7(B)	i) The mean of the following distribution is 26. Find the value of p and also the value of the observation. Also Calculate Median and Mode xi 0 1 2 3 4 5 fi 3 3 p 7 p - 1 4	5	CO5	BT3	

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PART-B	Q8(A)	Illustrate the concept of Skewness and Kurtosis	4	CO4	BT2	
	Q8(B)	Find the Coefficient of Skewness of this data.The runs scored in a cricket match by 11 players is as follows:	6	CO5	BT3	
	Q9(A)	Elaborate the importance of cumulative record. Prepare a specimen of cumulative record of a learner for a XYZ school	2+3	CO5	BT6	
	Q9(B)	Find the mode of the above data. The marks obtained by 40 students out of 50 in a class are given below in the table. Marks (in $) 42 36 30 45 50 Number of Students 7 10 13 8 2	5	CO3	BT3	
	Q10(A)	Discuss the role and importance of Grading system. Compare and contrast the different types of grading system.	5	CO2, CO3	BT4	
	Q10(B)	Calculate standard deviation of the following frequency distribution: Classes Frequency 1 - 10 3 10 - 20 7 20 - 30 12 30 - 40 15 40 - 50 8 50 - 60 5	5	CO4	BT3	
	Q 11	Calculate median, mode, Q3, P60, D7 of the following frequency distribution: Classes Frequency 0 - 10 10 10 - 20 18 20 - 30 27 30 - 40 32 40 - 50 24 50-60 09	10	CO4	BT3	
		********** END **********				

MANAV RACHNA UNIVERSITY

DEPARTMENT OF Education and Humanities

"END TERM Examination, Jan-June-2023"

SEMESTER	II	DATE OF EXAM	31.05.2023
SUBJECT NAME	Pedagogy of Physical Sciences	SUBJECT CODE	EDH128-T
BRANCH	Education & Humanities	SESSION	II
DURATION	3 hrs (01:00 – 04:00PM)	MAX. MARKS	80
PROGRAM	B.Ed.	CREDITS	3
NAME OF FACULTY	Dr. Bushra Sumaiya	NAME OF COURSE COORDINATOR	Dr. Bushra Sumaiya

*Note: Part A: All questions are compulsory (5*2=10 marks)*

*Part B: Attempt any three questions (3*10=30 marks)*

*Part C: Attempt any four questions (4*10=40 marks)*

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	What is Brainstorming?	2	CO2	BT1	
	1(B)	Differentiate between a Conference and a Workshop.	2	CO5	BT3	
	1(C)	What are the benefits of using models and charts?	2	CO3	BT1	
	1(D)	What are the advantages of using problem solving method in Physical Science at secondary school level?	2	CO4	BT1	
	1(E)	Give two examples of Physical Science to use group discussion method of teaching.	2	CO4	BT6	
PART-B	2	How is Physical Science interlinked with other school subjects?	10	CO5	BT2	
	3	Why is it important to use ICT tools and online resources in teaching Physical Science at various stages of school?	10	CO2	BT2	
	4	Explain the features of a Physical Science laboratory. What is the importance of having a Physical Science laboratory in school?	10	CO1	BT1 & BT2	

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	5	Evaluate the following statement- "Professional development programmes enhance the teaching skills of teachers."	10	CO6	BT5	
PART-C	6	Discuss in detail about the 5E Model of Science Instruction.	10	CO3	BT2	
	7	Write in detail about **any three** methods of teaching Physical Science.	10	CO4	BT2	
	8	What is Continuous and Comprehensive Evaluation (CCE)? Enumerate its objectives and features.	10	CO5	BT1 & BT2	
	9	Discuss the personal, general, and subject-specific qualities of a Science teacher?	10	CO6	BT3	
	10	Elaborate on "Assessment For, As and Of Learning."	10	CO4	BT2	

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MANAV RACHNA UNIVERSITY

DEPARTMENT OF Education and Humanities

"END TERM Examination, Jan-June-2023"

SEMESTER	II	DATE OF EXAM	31.05.2023
SUBJECT NAME	Pedagogy of Computer Science	SUBJECT CODE	EDH112-T
BRANCH	Education & Humanities	SESSION	II
DURATION	3 hrs (01:00 – 04:00)	MAX. MARKS	80
PROGRAM	B.Ed.	CREDITS	3
NAME OF FACULTY	Dr. Bushra Sumaiya	NAME OF COURSE COORDINATOR	Dr. Bushra Sumaiya

*Note: Part A: All questions are compulsory (5*2=10 marks)*

*Part B: Attempt any three questions (3*10=30 marks)*

*Part C: Attempt any four questions (4*10=40 marks)*

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	What is Blended Learning?	2	CO2	BT1	
	1(B)	Why is it necessary to make lesson plans?	2	CO3	BT3	
	1(C)	What are the four benefits of using teaching aids?	2	CO3	BT1	
	1(D)	Give two examples of Computer Science to use problem solving method of teaching.	2	CO4	BT2	
	1(E)	What are some field visit areas where teachers can go for professional development?	2	CO6	BT1	
PART-B	2	Explain the role of a Computer Science laboratory in enhancing technical skills among students?	10	CO2	BT2	
	3	Describe the Herbertian lesson planning in detail.	10	CO3	BT2	
	4	Write short-notes on **any two** of the following- A. Collaborative learning B. Team Teaching C. Experimental Learning	10	CO4	BT3	

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	5	Elaborate upon the personal and professional qualities of a Computer Science teacher?	10	CO5	BT3	
PART-C	6	What is scientific temper? How can a science teacher develop scientific temper among students?	10	CO1	BT1 & BT2	
	7	Discuss the general and specific aims of teaching Computer Science at various school levels?	10	CO3	BT2	
	8	Enlist some ICT tools and online resources to teach Computer Science. Why is it necessary to use ICT tools and online resources to teach Computer Science?	10	CO2	BT2	
	9	What do you mean by professional development of teachers? How does a Science teacher benefit by attending a professional development course?	10	CO6	BT1 & BT2	
	10	Explain the various tools and techniques of assessment of Computer Science.	10	CO4	BT2	

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SCHOOL OF EDUCATION & HUMANITIES

"End Semester Examination, June-2023"

Semester: 2 **Date:** 31.05.2023

Subject: PEDAGOGY OF HINDI **Subject Code**: EDH 130-T

Branch: EDUCATION **Session**: II

Course Type: Core **Course nature**: Hard

Time: 3 HOURS (01:00 – 04:00PM) **Max. Marks**: 80

Program:B.Ed **Signature H.O.D.**:

खंड क में सभी प्रश्न अनिवार्य है। प्रत्येक प्रश्न के लिए 2 अंक निर्धारित हैं।
खंड ख में दो प्रश्न अनिवार्य है। प्रत्येक प्रश्न के लिए 10 अंक निर्धारित हैं।
खंड ग में चार प्रश्न अनिवार्य है। प्रत्येक प्रश्न के लिए 10 अंक निर्धारित हैं।

खंड- क (2X10=20)

1. पाठ योजना की आवश्यकता पर प्रकाश डालिये।
2. मूल्यांकन से आप क्या समझते है ?
3. भाषा शिक्षण में सहायक सामग्री का महत्व स्पष्ट कीजिये।
4. श्रव्य साधनों का बच्चों के विकास में क्या योगदान है ?
5. लिखित परीक्षा के गुण स्पष्ट कीजिये।
6. व्यवस्थीकरण परीक्षा के दो उदाहरण दीजिये।
7. दीर्घात्मक परीक्षा के दोष स्पष्ट कीजिये।
8. वस्तुनिष्ठ परीक्षा से क्या अभिप्राय है?
9. हिंदी शिक्षण में गृहकार्य का महत्व स्पष्ट कीजिये।
10. रेडियो द्वारा भाषायी कौशलों का विकास किस प्रकार संभव है ?

खंड -ख (10X2=20)

11. ब्लूम द्वारा निर्धारित अनुदेशनात्मक उद्देश्यों पर विस्तार से लिखिए ।
12. गद्य शिक्षण के सोपान लिखिए ।
13. वाचन कौशल के अर्थ एवं महत्व पर प्रकाश डालिये।

खंड- ग

(10X4=40)

14. 8-10 कक्षा से गद्य की पाठ योजना तैयार कीजिये।
15. व्याकरण के किसी भी विषय पर पाठ योजना तैयार कीजिये।
16. हिंदी शिक्षण में गृहकार्य का महत्व बताते हुए संशोधन प्रक्रिया एवं विधियों का वर्णन कीजिये।
17. आदर्श प्रश्न पत्र का निर्माण करते समय किन किन बातों का ध्यान रखना चाहिए?
18. हिंदी शिक्षण में दृश्य- श्रव्य साधनों की उपयोगिता एवं महत्व पर विस्तार से प्रकाश डालिये।

MANAV RACHNA UNIVERSITY
Declared as State Private University vide Haryana Act 26 of 2014

SCHOOL OF EDUCATION AND HUMANITIES

End Term 'B Examination Jan-May 2023'
SET B (Regular and PSC)

SEMESTER	**II**	**DATE OF EXAM**	06.06.2023
SUBJECT NAME	**Language and Curriculum**	**SUBJECT CODE**	**EDS123B**
BRANCH	**Education**	**SESSION**	II
TIME	01:00PM - 2:30PM	**MAX. MARKS**	**50**
PROGRAM	**B.Ed. II semester**	**CREDITS**	**2**
NAME OF FACULTY	**Dr. Savita Sharma**	**NAME OF COURSE COORDINATOR**	**Dr Savita Sharma**

Note:
1. There are two parts in this question paper (Part A and Part B).
2. Attempt any five questions out of six in each part. Each question carries 5 marks.

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART A	Q.1	Differentiate between receptive and expressive functions of language with example.	5	CO1	BT4	
	Q.2	'Language is just not for one's expression rather is a fundamental base of one's identity development'. Justify the statement with the help of suitable explanation.	5	CO1	BT5	
	Q.3	Throw light on key strategies that can be used by the teacher to cater to Multilingualism in the classroom.	5	CO1	BT2	
	Q.4	Compare and Contrast ideas of Bandura and Skinner on language development.	5	CO2	BT4	
	Q.5	As a teacher, summarize various strategies you will use to make classroom discourse most effective.	5	CO2	BT5	

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	Q.6	State various types of questions. How the combinations of various types of questions provide an effective base for a more interactive classroom discussion?	2+3	CO2	BT3	
PART B	Q.7	Reflect upon the importance of reading in any of the school subject of your choice.	5	CO3	BT5	
	Q.8	Share your understanding of the concept of transactional and reflexive texts.	5	CO3	BT2	
	Q.9	Sound reading skill is the base for the good understanding across all the curricular areas. Do you agree? Defend your stand with practical examples.	5	CO3	BT5	
	Q.10	What impact do you see of technological development on students writing skills?	5	CO4	BT4	
	Q.11	Examine the inter relationship between reading and writing with the help of practical examples.	5	CO4	BT4	
	Q.12	What are some of the major challenges in developing sound command over the writing skill in context of language learning in Indian classroom?	5	CO4	BT2	
		*******END******				

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MANAV RACHNA Vidyaparikshar

MANAV RACHNA UNIVERSITY
Declared as State Private University vide Haryana Act 26 of 2014

DEPARTMENT OF EDUCATION AND HUMANITIES

"End Term Examination, May 2023"

SEMESTER	**IV**	**DATE OF EXAM**	22.05.2023
SUBJECT NAME	**Education in Contemporary India**	**SUBJECT CODE**	**EDH214 -T**
BRANCH	**EDUCATION & HUMANITIES**	**SESSION**	I
TIME	09:00 – 12:00 PM	**MAX. MARKS**	**80**
PROGRAM	**. B.Ed.**	**CREDITS**	**04**
NAME OF FACULTY	**Dr Arvinder Kaur**	**NAME OF COURSE COORDINATOR**	**Dr Arvinder Kaur**

Note: Part A: All questions are compulsory. Each question will be 5 Marks.
Part B: Attempt any 1 out of 2 each question will be 10 marks.
Part C: Attempt any 3 out of 4 each question will be 10 marks.
Part D: All Questions are compulsory.

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(a)	Explain the meaning of term Fraternity, liberty and Socialist.	05	CO1	BT2	
	1(b)	Explain the social stratification of Indian society on the basis of Caste and Language.	05	CO1	BT2	
PART-B	2 (a)	Critically analyze the role of constitutional provision in development of the nation.	10	CO2	BT5	
	2(b)	Discuss the relevance of Macaulay's minutes in today's scenario. Construct your own policies which you will like implement in India's Education System	10	CO2	BT2+B6	
PART-C	3	1) Write the importance of N.C.E.R.T in Indian education system 2) Differentiate between C.B.S.E and I.C.S.E	5+5	CO3	BT4	
	4	Examine the role of Open and Distance learning in holistic development of the child.	10	CO4	BT4	
	5	Classify different types of schools in India. Differentiate between the functioning government and private schools.	10	CO3	BT2 + BT4	
	6	"In an inclusive classroom, teachers work together to provide specially-abled children or students from diverse cultures and races	10	CO5	BT5	

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		with appropriate support to encourage their genuine and valued participation." Justify the statement.				
PART-D	7	Examine the functioning of 'Sarva Shiksha Abhiyan' in achieving the goal of universalisation	10	CO5	BT4	
	8	Write short note on: a) Modernization of Education b) Privatization of Education	5+5	CO4	BT2	
	9	"Equity in education aims to create a level playing field for all children by supporting those who need it most" Give your view point	10	CO5	BT3	
		*******End*******				

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MANAV RACHNA UNIVERSITY

MANAV RACHNA UNIVERSITY

DEPARTMENT OF EDUCATION & HUMANITIES

"Mid Term Examination, Jan-June-2023"

SET A

SEMESTER	**IV**	**DATE OF EXAM**	26.05.2023
SUBJECT NAME	**Gender, School and Society**	**SUBJECT CODE**	**EDS 215**
BRANCH	**Education**	**SESSION**	I
DURATION	1.5 **hours**	**MAX. MARKS**	**50**
PROGRAM	**B.Ed.**	**CREDITS**	**2**
NAME OF FACULTY	**Ms. Shivani Bakshi**	**NAME OF COURSE COORDINATOR**	**Dr Ritu Sharma**

Read the following instructions carefully and answer accordingly:

1. *The paper is sectioned into three parts, A, B, and C respectively.*
2. *All Questions are compulsory in Section A. However, there are internal choices in Section B and C, which need to be answered accordingly.*
3. *Section A carries a total of five compulsory short answer type questions, carrying 2 marks each, which need to be answered within 150 words.*
4. *In Section B four questions need to be answered within 350 words.*
5. *Section C carries two long answer type questions with internal choices, carrying 10 marks each, to be answered within 750 words.*

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	What is gender stereotyping?	2	CO2	BT 1	
	1(B)	Write a short note on patriarchy.	2	CO2	BT 2	
	1(C)	How does gender correlate to power?	2	CO1	BT4	
	1(D)	Illustrate with example how does gender bias percolate in the society.	2	CO3	BT3	
	1(E)	Explore the significance of SDG 5 on gender empowerment.	2	CO4	BT2	

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PART-B	2(A)	a. Reflect on the agencies of gender socialization OR b. Explore the role of family as an instrument in shaping gender roles and identities.	5	CO4	BT4	
	2(B)	a. How are schools instrumental in eliminating gender bias? OR b. Reflect on the underpinnings of POCSO 2012.	5	CO3	BT5	
	2(C)	a. Differentiate between masculinity and femininity. OR b. Why does gender bias need to be addressed in ensuring student retention in schools?	5	CO1	BT4	
	2(D)	a. How does gender bias influence school dropout? OR b. Does media promote gender prejudice or parity in society? Discuss.	5	CO3	BT3	
PART-C	3(A)	a. Based on your research work, explore the relevance of gender-based discrimination in society. OR b. How is research significant in addressing gender prejudice?	10	CO1	BT5	
	3(B)	a. Analyze the intersectionality of gender with caste. OR b. Reflect on the underpinnings of POCSO 2012.	10	CO2	BT4	

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MANAV RACHNA vidyanatarikshe
MANAV RACHNA UNIVERSITY
(FORMERLY MANAV RACHNA COLLEGE OF ENGINEERING
NAAC ACCREDITED 'A' GRADE INSTITUTION)
Declared as State Private University under section 2f of the UGC act, 1956

SCHOOL OF EDUCATION AND HUMANITIES

End Term Examination
(Jan-May 2023)
SET A

Semester: IV
Subject: Knowledge and Curriculum
Branch: Education
Course Type: Core
Time: 180 Minutes (09:00–12:00 PM)
Max. Marks: 80

Date of Exam: 01.06.2023
Subject Code: EDH206-T
Session: I
Course Nature: Hard
Program: B.Ed.
Signature: HOD/Associate HOD:

Note
1. Attempt all questions in Part A. Each question carries 5 marks.
2. Attempt any two questions in Part B. Each question carries 10 marks.
3. Attempt any four questions in Part C. Each question carries 10 marks.

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART A	Q.1(A)	Explain the concept of Curriculum with the help of its core characteristics.	5	CO4	BT2	
	Q.1 (B)	Analyze various ways through which concerns regarding gender sensitization can be addressed through curriculum.	5	CO4	BT4	
	Q.1(C)	'Bottom up approach captures the heart of designing curriculum framework in India'. Share your reflection on the statement.	5	CO4	BT5	
	Q.1(D)	Throw light on the place of CBSE as a prominent agency in the area of school curriculum in Indian setting.	5	CO5	BT4	
PA	Q.2	Differentiate between the concept of Knowledge and Information. Critically examine the changing role of teacher in the	4+6	CO1	BT4	

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R T		digital era with reference to knowledge generation process.				
B	Q.3	Summarize the key ideas propounded by Indian thinkers viz a viz their western counterparts in context of methods of acquiring knowledge.	10	CO2	BT5	
	Q.4	Justify the interdependence of Education and Politics as the major sub systems of society with the help of practical examples.	10	CO3	BT5	
PART C	Q.5	Being the In-charge of the curriculum planning and development wing of your school, what principles you will keep in mind while framing curriculum in order to develop 21st critical skills in learners?	10	CO4	BT3	
	Q.6	Why is Curriculum development known as a continuous process? Explain different steps involved in the process of Curriculum Development.	10	CO4	BT2	
	Q.7	List different approaches for designing Curriculum. Analyze any one of them in detail, that according to you is the best approach in Indian setting and support your stand with logical arguments.	2+8	CO4	BT1+BT4	
	Q.8	'Organizational ethos and culture form the part of the Hidden curriculum'. Share your analysis with relevant example.	10	CO4	BT4	
	Q.9	Critically evaluate the role of NCERT in Curriculum designing especially in context of development of Textbooks and Teaching Learning Material.	10	CO5	BT4	
	Q.10	'NEP 2020 is a roadmap towards attaining goal of holistic education' Reflect on the given statement in light of the recommendations given by NEP 2020 in the area of school curriculum.	10	CO5	BT5	
		*******END******				

MANAV RACHNA Vidyanatarikshat

MANAV RACHNA UNIVERSITY
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Department of Management and Commerce

"End Term Examination, May -2023"

SEMESTER	**IV /VI**	**DATE OF EXAM**	03.06.2023
SUBJECT NAME	**Introduction to Finance**	**SUBJECT CODE**	MCS232
BRANCH	**BA/B.Tech**	**SESSION**	**1**
TIME	9:00 AM – 10:30 AM	**MAX. MARKS**	**50**
PROGRAM	**B.Ed/ECE**	**CREDITS**	**2**
NAME OF FACULTY	**Ms. Khushboo Gulati**	**NAME OF COURSE COORDINATOR**	**Ms. Khushboo Gulati**

Note: All questions are compulsory

	QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
1	Critically evaluate the following forms of business organization: a) Proprietary Firms b) Partnership Firms Or Differentiate between fee based and fund based financial services?	10	CO1	1	
2	Explain the concept of time value of money? Or Hi-Sounds, a small audio equipment retailer, has just completed the second year of trading. Profits are up, but the manager is slightly concerned. It is felt by the management that the firm could face liquidity problems in the near future. The data for this claim is as follows: Calculate Liquid ratio and Current ratio and comment on the liquidity status of the business.	10	CO2	1	

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	As at 31 December:	**2017**	**2018**				
		Rs	**Rs**				
	Stock	145000	75680				
	Debtors	66620	98710				
	Bank	32000					
	Creditors	93100	78450				
	Bank overdraft		24890				
3.	What do you understand by break-even point and margin of safety? **OR** Name and explain the different financial markets?			10	CO2	2	
4.	State the difference between Shares and Debentures? Examine critically 'Debentures' as a source of corporation finance.			10	CO3	2	
5.	(i) Differentiate between pay-back period and net present value method with example? (ii) An investment of Rs 200,000 is expected to generate the following cash inflows in 5 years: Year 1: Rs55,000 Year 2: Rs 60,000 Year 3: Rs 32,000 Year 4: Rs 35,000 Year 5: Rs 20,000 Compute payback period of the investment. Should the investment be made if management wants to recover the initial investment in 3 years or less?			5+5	CO4	1	

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SCHOOL OF MANAGEMENT AND COMMERCE

"END Term Examination, May-2023"

SEMESTER	IV	**DATE OF EXAM**	3.6.2023
SUBJECT NAME	**BASICS OF ECONOMICS**	**SUBJECT CODE**	**MCS 231**
BRANCH	**B.ED**	**SESSION**	**1**
DURATION	1.5 **HOURS** (9:00–10:30)	**MAX. MARKS**	**50**
PROGRAM	**B.ED**	**CREDITS**	**3**
NAME OF FACULTY	**MR. NEERAJ CHOPRA**	**NAME OF COURSE COORDINATOR**	

Instructions

1) **The paper contains three sections (Section-A and Section-B).**
2) **It is mandatory to attempt all sections.**
3) **Attempt any 4 questions from Section-A.**
4) **Attempt any 3 questions from Section-B.**

Section-A

Q.NO.	QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL
1	Briefly illustrate the law of demand with suitable example	5	CO1	BT1
2	Discuss the various degrees of price elasticity of demand.	5	CO1	BT1
3	Draw the chart of Law of demand.	5	CO1	BT1
4	Difference between fixed and variable factors of production.	5	CO1	BT1
5	Differentiate between law of variable proportion and law of returns to scale	5	CO1	BT1
6	Discuss briefly what is utility	5	CO1	BT1
Section-B				
7	Discuss the briefly why production is crucial for economy	10	CO2	BT2

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8	Explain law of diminishing marginal utility	10	CO2	BT2
9	Briefly explain the nature of economic problem.	10	CO1	BT1
10	Briefly describe the perfect competition.	10	CO1	BT1
11	Explain with example fixed cost, variable cost and average cost.	10	CO1	BT2

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SCHOOL OF EDUCATION AND HUMANITIES

END TERM EXAMINATION MAY'2023

SET A

SEMESTER	**02**	**DATE OF EXAM**	**29 /05/2023**
SUBJECT NAME	**LEARNING TEACHING ASSESSMENT**	**SUBJECT CODE**	**EDH-156T**
BRANCH	**EDUCATION**	**SESSION**	**II**
TIME	**03 HOURS**	**MAX. MARKS**	**80**
PROGRAM	**B.Ed. Special Education**	**CREDITS**	**04**
NAME OF FACULTY	**Ms. Reshma Bhown**	**NAME OF COURSE COORDINATOR**	**Ms. Reshma Bhown**

Note: Part A: Attempt all the questions in Part A. Each question carries 1 mark each. Part B: Attempt all questions in Part B. Each question carries 5 marks.
*Part C: Attempt **any 5** questions in Part C. Each question carries 10 marks.*

	Q.No	Questions	Marks	CO Addressed	Bloom's Level
PART-A	1	Learning is a process not a _____	1	CO1	L1
	2	..... type of intelligence deals with capacity to understand the intentions, motivations, and desires of other people as per Howard Gardner	1	CO1	L2
	3	According to Maslow's hierarchy of needs, if a person's esteem needs have been satisfied, then it is safe to assume that all of the following needs have also been satisfied EXCEPT: (a)Belonging. (b)Knowing. (c)Physiological	1	CO2	L4

		(d)Safety.			
	4	Sometimes we can attend to two different things at the same time. This type of attention is known as _____ attention.	1	C02	L5
	5	The Concept of ZPD is part of which type of theory? (a) Cognitivism. (b) Behaviorism (c) Social Constructivism (d) Continuous growth and development.	1	CO2	L1
	6	The process of collection, synthesis, and interpretation of information to aid the teacher in decision making is called: (a)Test (b)Measurement (c)Assessment (d)Evaluation	1	C02	L1
	7	Memory is a process consisting of 3 independent stages namely encoding, storage and _____	1	CO2	L1
	8	Behavior is the result of_____ - response	1	CO2	L4
	9	.....gave the triachic theory of intelligence.	1	CO1	L1
	10	..... is the most important phase in the process of teaching	1	CO3	L2
PART-B	11	Explain the factors affecting attention. Delineate any 1 attention building activity for CWSN	5	CO3	L4
	12	Throw light on the 'Stage Model' of memory. Mention any 2 ways to enhance memory with examples	5	CO1	L4
	13	Write a short note on perception.	5	CO1	L4
	14	Describe Maslow's theory briefly. How would self actualization look for you as an individual?	5	CO3	L4
PART-C	15	Discuss the stages of learning. Cite examples with respect to CWSN	10	C05	L5
	16	Throw light on Psychological and Physical learning environments.	10	C05	L6
	17	Discuss 'Assessment for learning', 'Assessment of learning' and 'Assessment as learning'	10	C05	L5
	18	Critically discuss the changes YOU would like to bring in the evaluation process for CWSN	10	C05	L6
	19	Illustrate different strategies for assessment. As a future special educator, mention one assessment strategy that you find very useful.	10	C01	L6
	20	Delineate the maxims of teaching keeping in view CWSN.	10	C05	L6

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SCHOOL OF EDUCATION AND HUMANITIES

"End Term Examination, June-2023"

Set - A

SEMESTER	**II**	**DATE OF EXAM**	02.06.2023
SUBJECT NAME	**INTRODUCTION TO NEURODEVELOPMENTAL DISABILITIES (LD, ID/MR, ASD)**	**SUBJECT CODE**	**EDS152**
BRANCH	**Education**	**SESSION**	II
TIME	**1.5 HOURS** (01:00 - 2:30)	**MAX. MARKS**	**50**
PROGRAM	**B.Ed. Special Education**	**CREDITS**	**02**
NAME OF FACULTY	**Chandra Prakash Singh**	**NAME OF COURSE COORDINATOR**	**Chandra Prakash Singh**

Note: Part A: All questions are compulsory. Questions will be of short answer type (3 Marks).
Part B: Attempt any three out of four; questions will be of 5 Marks.
Part C: Attempt any One out of two; questions will be of 10 Marks
Part D: Attempt any One out of two; questions will be of 10 Marks

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	Q1	Write the definition of learning disability and its characteristics.	03	CO1	BT3	
	Q2	What is curricular adaptation? How can it be used to support children with learning disabilities?	03	CO1	BT2	
	Q3	Explain the term Trisomy 21, how it is different from other neurodevelopmental disabilities.	03	CO2	BT2	
	Q4	Define Autism Spectrum Disorder (ASD) and its characteristic feature.	03	CO3	BT3	
	Q5	What is the concept of transition education?	03	CO4	BT2	

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PART-B	Q6	What are CBSE guidelines for children with specific learning disabilities? How can they help in creating an inclusive learning environment?	05	CO1	BT2	
	Q7	What are the different tools and areas of assessment for intellectual disabilities? How do they help in identifying the needs of individuals with intellectual disabilities?	05	CO2	BT4	
	Q8	How teaching methods can be adapted to meet the specific needs of children with ASD?	05	CO2	BT3	
	Q9	What is the concept of transition education? How can it be used to support individuals with developmental disabilities in their transition to adulthood?	05	CO3	BT3	
PART-C	Q10	Design an intervention plan for the sound symbol association in a 6 year old child with dyslexia.	10	CO3	BT6	
	Q11	Design an intervention plan to promote ADL skills in a 6 year old child with ID.	10	CO3	BT6	
PART-D	Q12	Design an intervention plan to develop basic communication skills in a 8 year old child with ASD.	10	CO4	BT6	
	Q13	Critically analyze the concept of vocational training and career opportunities for persons with developmental disabilities. How Individualized Vocational Transition Plan (IVTP) can be used to support them?	10	CO4	BT5	

********** END **********

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DEPARTMENT OF EDUCATION & HUMANITIES

"End Term Examination, June-2023"

Set-A

SEMESTER	II	DATE OF EXAM	5.06.2023
SUBJECT NAME	Curriculum Designing, Adaptation and Evaluation	SUBJECT CODE	EDH157-T
BRANCH	Education	SESSION	II
TIME	3 Hour (01:00 – 04:00)	MAX. MARKS	80
PROGRAM	B.Ed. Special Education	CREDITS	4
NAME OF FACULTY	Chandra Prakash Singh	NAME OF COURSE COORDINATOR	Chandra Prakash Singh

Note: Part A: All questions are compulsory. Questions will be of short answer type (2 Marks).
Part B: Questions will be of descriptive type. Each question will be of (5 Marks). Attempt any four questions.
Part C: Questions will be of descriptive type. Each question will be of (10 Marks). Attempt any four questions.

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	What are the necessary skills needed to comprehend the concept of fractions?	2	CO 1	L1	
	1(B)	How does the hidden curriculum support the development of students in schools?	2	CO 1	L3	
	1(C)	What is the significance of the psycho-motor domain in early childhood education?	2	CO 1	L2	
	1(D)	Enlist the challenges faced by students with dyscalculia while learning mathematics?	2	CO 1	L2	

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	1(E)	Define learner-centered and learning-centered curriculum design, with respect to CWLD.	2	CO 1	L2	
	1(F)	Discuss the role of need analysis in planning and implementing an Individualized Education Program (IEP)?	2	CO1	L2	
	1(G)	What are the essential components of a lesson plan?	2	CO 2	L1	
	1(H)	Differentiate between formative and summative evaluation?	2	CO 4	L3	
	1(I)	What are the steps for modifying instruction for students with special needs?	2	CO 3	L1	
	1(J)	How Cooperative arrangement is different from Collaborative arrangement.	2	CO 3	L 3	
PART-B	Q2	Illustrate the ADDIE model with an example.	5	CO3	L4	
	Q3	Define the term Curriculum hierarchies? Explain any one hierarchy in detail.	5	CO 3	L3	
	Q4	How does Universal Design for Learning (UDL) support the objectives of NCF 2005?	5	CO 4	L3	
	Q5	What are the steps involved in adapting instruction for students with disabilities, and how would you adapt for a student with dyslexia?	5	CO 4	L2	
	Q6	Reflect upon the implication of Pyramid plan for children with learning disabilities.	5	CO 4	L4	

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PART-C	Q7	Create Rubrics for the assessment of pre-reading skills.	10	CO 5	L6	
	Q8	What are the various types of assessment, and which assessment would you prefer as a special educator for accommodating students with disabilities in an inclusive classroom? Support your answer with a case example.	10	CO 5	L5	
	Q9	Develop an Intervention plan for speaking skills at elementary level.	10	CO 5	L6	
	Q10	Critically evaluate the scope of CCE for children with intellectual disabilities.	10	CO 6	L5	
	Q11	Explain the Principles of Adaptation. Formulate the adaptation strategies for children with Dysgraphia at primary level.	10	CO 6	L6	
********** END **********						

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MANAV RACHNA Vidyanatariksha

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FACULTY OF LAW

"End Semester Exam May – June 2023"

SEMESTER	**EVEN**	**DATE OF EXAM**	7.6.2023
SUBJECT NAME	**Laws Relating to Persons with Disabilities**	**SUBJECT CODE**	LWS124
BRANCH	Education	**SESSION**	II
TIME	1:00 – 2:30PM	**MAX. MARKS**	**50**
PROGRAM	B.Ed-Sp. Education	**CREDITS**	**2**
NAME OF FACULTY	**Mr. Shubhank**	**NAME OF COURSE COORDINATOR**	**Mr. Shubhank**

***Note**: All questions are compulsory.*

	QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL
1	What do you understand by writs? Mention the 5 types of writs.	5	1	BT 01
2	What do you understand by domestic violence? Also elucidate if the offence is relevant in present day society in India.	5	2	BT 02
3	Explain the rights of Persons with Disability in the Indian Constitution. Also highlight the main provisions that have laid the background for rights to Persons with Disabilities in India.	20	2,3	BT 02
4	Explain the provisions of Rights of Persons with Disabilities Act, 2016 with special emphasis on Rights provided to the Persons with Disabilities and range of disabilities covered under the act.	20	3,4	BT 04

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SCHOOL OF EDUCATION AND HUMANITIES

"End TermExamination, May-2023"

Set - A

SEMESTER	IV	DATE OF EXAM	22.05.2023
SUBJECT NAME	APPLIED BEHAVIOR ANALYSIS	SUBJECT CODE	EDS248
BRANCH	Education	SESSION	I
TIME	1.5 HOURS	MAX. MARKS	50
PROGRAM	B.Ed. Special Education	CREDITS	02
NAME OF FACULTY	Chandra Prakash Singh	NAME OF COURSE COORDINATOR	Chandra Prakash Singh

Note: Part A: All questions are compulsory. Questions will be of short answer type (3 Marks).
Part B: Attempt any three out of four; questions will be of 5 Marks.
Part C: Attempt any One out of two; questions will be of 10 Marks
Part D: Attempt any One out of two; questions will be of 10 Marks

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	Q1	How applied behavior analysis is different from behavior modification?	03	CO1	BT3	
	Q2	What is Operant Conditioning and how does it work?	03	CO1	BT2	
	Q3	Provide a detailed explanation of maladaptive behavior.	03	CO2	BT2	
	Q4	Discuss the significance of Negotiation & Contract in intervention plan	03	CO3	BT3	
	Q5	Define Fading and its role in independent functioning.	03	CO4	BT2	

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PART-B	Q6	Discuss the implications of classical conditioning with respect to intervention plan.	05	CO1	BT2	
	Q7	List down the selection Criteria's for adaptive and maladaptive behaviors.	05	CO2	BT4	
	Q8	How can you modify Discrete Trial Teaching (DTT) methods to accommodate different learning styles of students with developmental disabilities?	05	CO2	BT3	
	Q9	Define the term Socially Unacceptable Behavior? How will you as a special educator assess these behaviors using formal and informal means?	05	CO3	BT3	
PART-C	Q10	Design an intervention plan to promote leadership skills in a 10 year old child with ID.	10	CO3	BT6	
	Q11	A child with autism does not complete his/her task. Design an intervention plan for the same.	10	CO3	BT6	
PART-D	Q12	Discuss the concept of Reinforcement and its scheduling? Design an intervention plan using DRA for a child who often scribbles on the wall.	10	CO4	BT6	
	Q13	A child often plays with his/her water bottle during the teaching learning activity. Design an intervention plan to improvise the condition.	10	CO4	BT5	
********** END **********						

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MANAV RACHNA vidyanatariksha

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SCHOOL OF EDUCATION AND HUMANITIES

"End-Term Examination

Set-A

SEMESTER	IV	DATE OF EXAM	24.05.2023
SUBJECT NAME	VOCATIONAL TRAINING, TRANSITION AND JOB PLACEMENT	SUBJECT CODE	EDS253
BRANCH	Education	SESSION	I
TIME	1.5 HOURS	MAX. MARKS	50
PROGRAM	B.Ed. Special Education	CREDITS	02
NAME OF FACULTY	Sharv Datt Anand	NAME OF COURSE COORDINATOR	Sharv Datt Anand

Note: Part A: All questions are compulsory. Questions will be of short answer type (2 Marks).
Part B: Attempt any two out of three questions will be of 5 Marks.
Part C: Attempt any TWO out of three questions will be of 10 Marks
Part D: Attempt any One out of three questions will be of 10 Marks

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	Q1	Define the term Vocational Education?	02	CO2	BT1	
	Q2	Define the policies for PWDs with respect to employment?	02	CO2	BT2	
	Q3	Explain in detail Approaches & Principles of vocational assessment?	02	CO2	BT2	
	Q4	What do you understand by the term Generic skills & Specific job skills.	02	CO2	BT2	
	Q5	Define the term Transition for a CWSN.	02	CO2	BT2	
PART-B	Q6	Describe the term pre-vocational? Enlist points for a Transition plan for a CWSN	05	CO3	BT3	
	Q7	As a Special Educator mention the importance of transition planning?	05	CO1	BT3	

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	Q8	Define the term vocational curriculum? How will you as a special educator insure transition of persons with Autism	05	CO1	BT4	
PART-C	Q9	Describe Individualized Vocational Transitional Plan? State its components	10	CO3	BT4	
	Q10	Define the term "Creation of Need-based Employment Settings." As a Special educator create a need-based plan for a CWLD	10	CO5	BT6	
	Q11	Describe in detail Types of Employment Settings? Create a plan for a child with LD who will be starting his professional career.	10	CO3	BT6	
PART-D	Q12	As a Special Educator define the scope of Vocational Education? How will you as a Special Educator guide a CWSN towards vocational education.	10	CO4	BT5	
	Q13	Elucidate the concept of Equal opportunities? How will you teach a child and their families with Autism about equal opportunities?	10	CO4	BT5	
	Q14	Discuss in detail about the principles of vocational assessment? As a Special Educator enlist any one principle which according to you will benefit a CWSN	10	CO3	BT4	
		********** END **********				

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SCHOOL OF EDUCATION & HUMANITIES

"End Term Examination, May-2023"

Set-B

SEMESTER	II	DATE OF EXAM	25.05.2023
SUBJECT NAME	CONTEMPORARY INDIA AND EDUCATION	SUBJECT CODE	EDH149-T
BRANCH	Education & Humanities	SESSION	II
TIME	3:00 Hrs.	MAX. MARKS	80
PROGRAM	B.Ed. Special Education	CREDITS	04
NAME OF FACULTY	Sharv Datt Anand	NAME OF COURSE COORDINATOR	Sharv Datt Anand

Note: Part A: All questions are compulsory. Questions will be of short answer type (2 Marks).
Part B: Questions will be of 5 Marks All questions are compulsory
Part C: Questions will be of 10 Marks Answer any 2
Part D: Questions will be of 10 Marks All questions are compulsory

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PJ
PART-A	1(A)	Which school-maintained self-expression with the accompanying cries of "no interference," "no restraints"? Explain in detail	2	CO1	BT1	
	1(B)	Which philosophy emphasized realization of Truth, Beauty, and Goodness as the aims of education? Explain	2	CO 1	BT1	
	1(C)	What is called education acquired without any specific purpose, fixed period, and place? (a) Indirect Education (b) Individual Education (c) Informal Education (d) Formal Education	2	CO 1	BT2	
	1(D)	Define the Principles of Education?	2	CO 4	BT1	
	1(E)	Define RPWD ACT 2016?	2	CO 4	BT2	
	1(F)	Mention the characteristics of a teacher according to Pragmatism?	2	CO 3	BT1	

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	1(G)	If a student failed in any class what should be done to him/her? Answer in accordance to the philosophies which you have studied (a) He should be given a chance to improve and sent to the next class after he improves (b) He should be kept in the same class (c) He should be advised to leave studies (d) All the above methods are right.	2	CO1	BT2	
	1(H)	Explain the goals of education according to Existentialism?	2	CO 3	BT1	
	1(I)	What do you understand by the term Contemporary Issues?	2	CO 4	BT1	
	1(J)	Explain the concept of Vocational Education according to Aurobindo?	2	CO 2	BT1	
PART-B	Q2(A)	Give a detailed analysis of the concept of diverse learning needs?	5	CO 2	BT3	
	2(B)	Write Short notes on the following 1) Universal retention 2) Community Participation	5	CO 3	BT3	
	Q3(A)	Critically Evaluate the NEP 2020? Keeping in mind the principles of Inclusive Education enlist the main features of NEP	5	CO5	BT3	
	3(B)	Write a detailed note on Sarva Siksha Abhiyan?	5	CO4	BT2	
PART-C	Q4(A)	What do you understand by the term "Inclusive Education"? Discuss about Inclusive Education as a Right Based Model	10	CO3	BT3	
	4(B)	Discuss the various diversities in the Indian Society. Also discuss the educational implications in context of these social diversities.	10	CO 3	BT4	
	Q4(C)	Explain the term Pragmatism? After studying this philosophy create a detailed plan as to how you will teach a CWSN	10	CO5	BT6	
PART-D	Q5(A)	Describe in detail the philosophical ideas of Rabindra Nath Tagore regarding education? Keeping in mind the aims of education which he gave devise a plan for a CWLD	10	CO5	BT6	
	Q5(B)	Explain in detail about Language Issues in Education? Construct a plan to teach a child with language disabilities	10	CO3	BT6	

********** END **********

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SCHOOL OF EDUCATION AND HUMANITIES

End Term Examination, May -2023, SET-A

SEMESTER	**II**	**DATE OF EXAM**	25.5.**2023**
SUBJECT NAME	**Indian History 1206 A.D to 1757 A.D**	**SUBJECT CODE**	**EDH** 137B
BRANCH	**School of Education and Humanities**	**SESSION**	II
TIME	**3 HOURS** (01:00-04:00)	**MAX. MARKS**	**100**
PROGRAM	**BA.BED**	**CREDITS**	**4 credits**
NAME OF FACULTY	**Dr. Nibedita Hazarika**	**NAME OF COURSE COORDINATOR**	**Dr. Nibedita Hazarika**

Note: **Part A: All questions are compulsory. Questions will be of short answer type (2 Marks each).**

Part B: All questions are Compulsory. Questions will be of descriptive type. Each question (5 Marks)

Part C: Questions will be of descriptive type. Each question (15 Marks) Attempt ANY FOUR

Q.NO.		**QUESTIONS**	**MARKS**	**CO ADDRESSED**	**BLOOM'S LEVEL**	**PI**
PART-A	**1(A)**	After the death of Qutub-Ud Din Aibak, Iltutmish undertook measures to consolidate the Slave. Explain	2	CO1	BT2	
	1(B)	Md. Ghazni's main intention was to carry the wealth of India to Ghazni. Explain	2	CO1	BT2	
	1(C)	The Battle of Khanwah, 1527 solidified Babur's position in India. Analyze	2	CO2	BT3	
	1(D)	During Jahangir and Shahjahan's period Mughal painting reached its Zenith. Discuss Jahangir's interest in Painting.	2	CO3	BT2	
	1(E)	Discuss the role of one of the major pioneers of the Sufi movement.	2	CO4	BT2	
PART-B	**Q2**	The 1st and 2nd Battle of Tarrain changed the course of medieval India. Analyze the significance of both the battles.	5	CO1	BT4	

	Q3	Write a note on Shivaji's life and career conquests	5	CO2	BT1	
	Q4	Draw out the differences between the second and third phase of the evolution of Akbar's religious ideas.	5	CO2	BT4	
	Q5	Discuss the development of literature during the Mughal period.	5	CO3	BT2	
	Q6	Identify four distinct features of the Mughal style of painting	5	CO3	BT1	
	Q7	Kabir once preached, "God is one, some call him Ram, some call him Rahim; he is not found in any temple or mosque but dwells in the hearts of men." Elaborate	5	CO4	BT3	
	Q8	Akbar expanded his empire and maintained hold over it with strong army. Critically discuss the Mansabdari system in this context.	15	CO2	BT5	
PART-C	Q9	Critically describe the phases of Suri Architecture.	15	C03	BT5	
	Q10	Critically evaluate the system of land revenue collection under the Mughals.	15	CO3	BT5	
	Q11	Critically analyse the origin and features of the Bhakti Movement	15	CO4	BT5	
	Q12	Critically evaluate the life and contribution of some of the reformers of the Bhakti period.	15	CO4	BT5	
		********** END **********				

SCHOOL OF EDUCATION & HUMANITIES

"End Term Examination, MAY-2023"

Set-A

SEMESTER	2nd	DATE OF EXAM	29/05/2023
SUBJECT NAME	Creating An Inclusive Classroom	SUBJECT CODE	EDH167B
BRANCH	Education & Humanities	SESSION	II
TIME	3:00 Hrs. (01:00 - 04:00 PM)	MAX. MARKS	100
PROGRAM	B.A B.Ed & B.Sc B.Ed	CREDITS	04
NAME OF FACULTY	Reshma Bhown	NAME OF COURSE COORDINATOR	Reshma Bhown

Note: Part A: All questions are compulsory. Questions will be of short answer type (2 Marks).
Part B: Questions will be of 5 Marks All questions are compulsory
Part C: Questions will be of 10 Marks Answer any 4
Part D: Questions will be of 10 Marks Answer any 2

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	How does Learning style contribute in the Diversity.	2	CO1	BT1	
	1(B)	What do you understand by the term "Inclusion as a Universal Human Right"? Explain with example.	2	CO 1	BT1	
	1(C)	'Sensitization' is the key for successful Inclusion. Justify this statement with an appropriate example.	2	CO 1	BT2	
	1(D)	Briefly throw light on segregation of CWSN	2	CO 4	BT1	
	1(E)	Full form of UNCRPD is_____. &_____ is one of its significant principles.	2	CO 4	BT2	
	1(F)	Mention 2 important characteristics of Inclusive Education?	2	CO 3	BT1	
	1(G)	_____ new disabilities have been added in RPWD 2016. _____is one of those disabilities.	2	CO1	BT1	
	1(H)	_____ is a process of placing persons with disabilities in mainstream educational institutions, if the student can adjust to the requirements of such institutions and _____ is a	2	CO 3	BT1	

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		system where all children regardless of the special needs are placed in general education classes where they receive high quality instruction, interventions, and supports that enable them to maximize their potential				
	1(I)	_____ & _____ are two causes of Visual Impairment	2	CO 4	BT1	
	1(J)	Explain the concept of Gifted Children?	2	CO 2	BT1	
PART-B	Q2(A)	Write a short note on UDL	5	CO 2	BT2	
	2(B)	Define the term "Sensory Disabilities." Explain any one Sensory Disability	5	CO 3	BT3	
	Q3(A)	Critically Evaluate the NEP 2020? Keeping in mind the principles of Inclusive Education enlist the main features of NEP	5	CO5	BT3	
	3(B)	Write the full form and symptoms of ADHD	5	CO4	BT2	
PART-C	Q4(A)	What do you understand by the term "Barrier Free"? Discuss about the different types of Barriers of Inclusive Education	10	CO3	BT3	
	4(B)	Discuss in detail about the Role of a teacher in an inclusive set up? How can you as a teacher in an inclusive setup make learning more meaningful.	10	CO 3	BT4	
	Q5(A)	Throw light on Circle of Inclusion.	10	CO5	BT3	
	5(B)	Elaborate on the Journey from Charity to Human- Rights based model of Disability	10	CO4	BT4	
	Q6(A)	Define the term support services? Construct a plan for a CWSN to make him comfortable in the school.	10	CO3	BT6	
	6(B)	Delineate the red flags of Learning Disabilities	10	CO 3	BT6	
PART-D	Q7(A)	Describe in detail the Concessions and Relaxations given to students with Special Needs	10	CO5	BT4	
	7(B)	Define Differentiated Learning? Design a Differentiated worksheet for a Child with Difficulties	10	CO4	BT6	
	Q7(C)	Explain the term Pedagogical strategies? Which Strategy will you as a teacher in an inclusive classroom would use in teaching with Children with Diversities	10	CO3	BT6	

********** END **********

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DEPARTMENT OF EDUCATION AND HUMANITIES

"End Term Examination-2023" SET A

SEMESTER	**2**	**DATE OF EXAM**	31.05.2023
SUBJECT NAME	**Microeconomics Theory and Application II**	**SUBJECT CODE**	**EDH 139B**
BRANCH	**EDUCATION & HUMANITIES**	**SESSION**	II
TIME	**3 Hours** (01:00–04:00)	**MAX. MARKS**	**100**
PROGRAM	**B.A. B.Ed.**	**CREDITS**	**04**
NAME OF FACULTY	**Ms. Kriti Dagar**	**NAME OF COURSE COORDINATOR**	**Ms. Kriti Dagar**

Note: Part A: All questions are compulsory. Each question will be 2 Marks.
Part B: Attempt all questions. Each question will be **05** marks.
Part C: Attempt all 4 questions, each question will be 10 marks.
Part D: Attempt all 3 questions, each question will be 10 marks

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1	Define Monopoly with an example	02	CO1	BT1	
	2	State two differences between perfect competition and Monopoly	02	CO1	BT1	
	3	Name the market form which has slightly differentiated products and state any two of its characteristics	02	CO1	BT2	
	4	Explain Monopsony.	02	CO2	BT2	
	5	Why does a monopolist face a downward-sloping demand curve?	02	CO2	BT2	
PART-B	6	Match the following: A: 1. MR= / 2. Profit= / 3. AR= / 4. Normal Profit / 5. Perfect Competition B: a. Perfect Information / b. Zero Profit / c. ΔTR/Δq / d. TR-TC / e. TR/Q	05	CO2	BT3	

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	7	Derive the equilibrium condition for: (a) a perfectly competitive firm; (b) For a monopoly	05	CO2	BT2	
	8	Distinguish between producers surplus and consumers surplus	05	CO1	BT3	
	9	Will the firms in an oligopoly act more like a monopoly or more like competitors? Briefly explain.	05	CO1	BT3	
PART-C	10	Explain the concept of "Prisoners-Dilemma". Is tit-for-tat strategy optimal in this case? OR Infer the following mathematically Consider the following payoffs table, where the payoffs to the two players, ROW and COLUMN, only depend upon the actions taken by the two players. L and R show left and right combinations taken by person B and T and B show top and bottom combinations taken by person A BOB / AL: Cheat / Promise Cheat: (3,3) (15,1) Promise: (1,15) (10,10) a) Consider the game where the players choose actions simultaneously. Solve for a Nash equilibrium in this game. b) Differentiate between cooperative and non-cooperative games with example.	10	CO1	BT4	
	11	Geographical Indicators (GI) protect businesses and help to preserve the cultural identity of products. Do you think in recent years the GI tag has been only used to protect the cultural identity and not really to protect the production process? Critically comment OR Show the relationship between Average revenue and marginal revenue of a monopoly market with the help of diagrams.	10	CO3	BT5	
	12	Differentiate between the MR-MC approach and TR-TC approach to profit maximization in competitive markets.	10	CO3	BT5	
	13	Examine the conditions under which monopolistic price discrimination is both possible and profitable	10	CO4	BT4	

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PART-D

14	The market demand curve for a commodity and total cost of monopoly is given below: Q: 0 1 2 3 4 5 6 7 8 P: 52 44 36 31 26 22 19 16 13 Q: 0 1 2 3 4 5 6 7 8 TC: 10 60 90 100 102 105 109 115 125 Find: i) MC and MR schedules ii) the quantity at which MR and MC are equal iii) The equilibrium output and equilibrium price iv) TR, TC and Total profit in equilibrium	10 (3+2+2+3)	CO4	BT 6
15	Is a monopolistically competitive firm productively efficient? Is it allocatively efficient? Why or why not?	10	CO4	BT6
16	Does the earnings gap between the average wages of females and the average wages of males prove labor market discrimination? Why or why not?	10	CO4	BT5

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SCHOOL OF EDUCATION AND HUMANITIES

END TERM EXAMINATION MAY 2023

SEMESTER	**02**	**DATE OF EXAM**	6.6.2023
SUBJECT NAME	**Renaissance & Restoration (Set-A)**	**SUBJECT CODE**	**EDH 138 B**
BRANCH	**Education**	**SESSION**	II
TIME	01:00PM – 04:00PM	**MAX. MARKS**	**100**
PROGRAM	**B.A B Ed**	**CREDITS**	**04**
NAME OF FACULTY	**Dr Akhilesh Kumar Dwivedi**	**NAME OF COURSE COORDINATOR**	**Dr Akhilesh Kumar Dwivedi**

Note: Attempt all the questions from part A & B and any four questions from part C. Write answers into your own words.

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1	Explain the following lines with reference to context. "God doth not need Either man's work or his own gifts: who best Bear his mild yoke, they serve him best. His state Is kingly; thousands at his bidding speed And post o'er land and ocean without rest: They also serve who only stand and wait."	5	CO4	BT-5	
	2	Explain the following lines with reference to context. "I, like an usurped town, to another due, Labour to admit you, but Oh, to no end. Reason, your viceroy in me, me should defend, But is captived, and proves weak or untrue.	5	CO5	BT-5	
	3	Write an essay on the writing style of John Milton.	5	CO5	BT-2	
	4	Explain Spenser as a poet.	5	CO5	BT-3	
PART-B	5	Compare and contrast the character sketches of Good Angel & Bad Angel in *Dr Faustus*.	10	CO1 & CO2	BT-5	
	6	Analyse the character sketch of Maria in the play *Twelfth Night*.	10	CO1 & CO3	BT-5	
PART-C	7	Critically analyse the poem "Batter My Heart" by John Donne.	15	CO5	BT-5	

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R T - C	8	Critically analyse the poem "Sonnet 67 by Spenser.	15	CO5	BT-5	
	9	Critically evaluate the essay "Of Truth" by Francis Bacon.	15	CO4	BT-5	
	10	Explain the points "Popular Superstitions"	15	CO4	BT-2	
	11	Critically evaluate John Milton as a last Renaissance Poet.	15	CO5	BT-2	
********** **END** **********						

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END TERM EXAMINATION MAY 2023

SEMESTER	04	DATE OF EXAM	19.05.2023
SUBJECT NAME	Twentieth Century British Literature (Set-B)	SUBJECT CODE	EDH231-T
BRANCH	Education	SESSION	I
TIME	9:00-12:00PM	MAX. MARKS	80
PROGRAM	B.A B Ed	CREDITS	04
NAME OF FACULTY	Dr Akhilesh Kumar Dwivedi	NAME OF COURSE COORDINATOR	Dr Akhilesh Kumar Dwivedi

Note: Attempt all the questions from part A & B and any four questions from part C. Write answers into your own words.

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1	Analyse the character sketch of Lucky in the play *Waiting for Godot*.	5	CO1& CO4	BT-4	
	2	Discuss *Waiting for Godot* as an absurd play.	5	CO1& CO4	BT-2	
	3	Write an essay on 'Virginia Woolf's feminism.'	5	CO5	BT-2	
	4	Explain Virginia Woolf as a modernist writer.	5	CO5	BT-4	
PART-B	5	Explain the following lines with reference to context: Though wise men at their end know dark is right, Because their words had forked no lightning they Do not go gentle into that good night.	10	CO1 & CO2	BT-5	
	6	Explain W B Yeats as a modernist poet.	10	CO1 & CO2	BT-4	
PART-C	7	Analyse the plot of Mrs Dalloway into your own words.	10	CO5	BT-3	
	8	Evaluate character sketch of Mrs Dalloway.'	10	CO5	BT-5	
	9	Critically analyse the character sketch of Estrogen.	10	CO1& CO4	BT-5	
	10	Develop your thought 'Mrs Dalloway as Modern novel.'	10	CO1& CO4	BT-4	
	11	Critically analyse the plot of *Waiting for Godot*.	10	CO1& CO4	BT-4	

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DEPARTMENT OF EDUCATION AND HUMANITIES

"End Term Examination, 2023"SET B

SEMESTER	**4**	**DATE OF EXAM**	22.05.2023
SUBJECT NAME	**Theory and Application of Macroeconomics-II**	**SUBJECT CODE**	**EDH232-T**
BRANCH	**EDUCATION & HUMANITIES**	**SESSION**	I
TIME	09:00 – 12:00PM	**MAX. MARKS**	**80**
PROGRAM	**B.A. B.Ed.**	**CREDITS**	**04**
NAME OF FACULTY	**Ms. Kriti Dagar**	**NAME OF COURSE COORDINATOR**	**Ms. Kriti Dagar**

Note: Part A: All questions are compulsory. Each question will be 2 Marks.
Part B: Attempt any 2 out of 3 each question will be **5** marks.
Part C: Attempt any 3 out of 4 each question will be 10 marks.
Part D: Attempt any 3 out of 4 each question will be 10 marks

	Q.NO.	QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1	Define the deflationary gap.	02	CO1	BT1	
	2	Explain cost-push inflation	02	CO1	BT2	
	3	State two properties of the LM curve	02	CO1	BT2	
	4	Explain any two features of Business cycles.	02	CO2	BT1	
	5	State whether the following statements are true or false. 1. The interest rate and level of output are determined by the interaction of money (LM) and commodity (IS) markets. 2. The increase in autonomous spending increases the level of income.	02	CO2	BT2	
PART-B	6	Classify the types of inflation on the basis of currency or intensity.	05	CO3	BT4	

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	7	Explain why the short-run Phillips curve is negatively sloped and why the long-run Phillips curve is vertical.	05	CO3	BT4	
	8	Differentiate between frictional unemployment and structural unemployment with an example.	05	CO4	BT4	
PART-C	9	Derive the Liquidity Money (LM) curve in the money market and state its properties.	10	CO5	BT5	
	10	"Demand-pull inflation occurs only when there is an inflationary gap in the economy." Explain	10	CO5	BT4	
	11	Critically examine purchasing power parity theory of foreign exchange. What were the shortcomings of the theory?	10	CO5	BT5	
	12	If, over time, wages and salaries on average rise at least as fast as inflation, why do people worry about how inflation affects incomes?	10	CO5	BT6	
PART-D	13	Construct a product-life cycle of any good in the Indian market using the Business cycle theory. You can replace the stages of the business cycle with words such as - Introduction, Growth, Maturity, Decline, Abandonment.	10	CO5	BT5	
	14	Examine a tradeoff between wage inflation and unemployment. Why will attempts to bring the unemployment rate below the natural rate result in accelerating rates of inflation. How relevant is the Phillips curve phenomenon in overpopulated developing economies like India?	10	CO6	BT6	
	15	Investigate the five factors affecting exchange rates with examples of each.	10	CO5	BT4	
	16	Consider the following numerical version of IS-LM model: *C = 400 + 0.5Yd* *I = 700 – 4,000i + 0.1Y* *G = 200* *T = 200* *Md/P = 0.5Y – 7,500i* *Ms/P = 500* a) Calculate the equilibrium level of income and interest rate. b) Find the IS and LM equations.	10 (5+5)	CO6	BT5	

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School OF EDUCATION AND HUMANITIES

"End Term Examination,2023"

SEMESTER	4	**DATE OF EXAM**	22.05.2023
SUBJECT NAME	Political Science: Growth and International Relations	**SUBJECT CODE**	EDH 233-T
BRANCH	Education	**SESSION**	I
TIME	3 Hours	**MAX. MARKS**	80
PROGRAM	B.A.B.Ed	**CREDITS**	4
NAME OF FACULTY	R K SANAYAIMA	**NAME OF COURSE COORDINATOR**	R K SANAYAIMA

Note: PART A: Attempt all the questions in Part A (Each question carry 5 marks).
PART B: Attempt any 5 questions out of the 6 questions (Each question carry 10 marks)

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	*'International relations (IR) are the interactions between sovereign states'* Elaborate the given statement on the idea of International relations as an academic discipline. Identify any 5 important scopes of international relations?	5	CO1	BT 3	
	1(B)	Explain any two stages/phases of the evolution of international relations as an academic discipline from the given 4 stages/phases? 1. The diplomatic history stage 2. The current events stage 3. The law and organization stage 4. The contemporary stage	5	CO2	BT 2	
	1(C)	Examine the general nature of International Relations ?	5	CO1	BT 4	
	1(D)	What is the role of non-governmental organizations (NGOs) in international relations?	5	CO3	BT1	
	1(E)	Evaluate **soft power** with at least two examples and how does it influence international relations?	5	CO4	BT5	
	1(f)	Explain any two methods of **Balance of Power** ?	5	C04	BT2	
PART-B	Q2	Discuss the concept and idea of power in international relations. Explain the Hard power with at least two examples ?	10	CO4	BT 2	
	Q3	Explain any two out of the four givens below	10	CO4	BT 4	

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		limitations to the national power? 1. International organization 2. International Morality 3. International Law 4. International opinion				
	Q4	What are the primary objectives of the United Nations, and how does it work towards achieving these goals?	10	CO5	BT3	
	Q5	What are the main reasons that make disarmament a challenging issue?	10	CO6	BT4	
	Q6	Briefly discuss the following peace treaties which hold immense significance in human history ? 1. First Geneva Convention 1864 2. Treaty of Versailles 1919 3. The Treaty of Westphalia 1648 4. The signing of the United Nations Charter in 1945	10	CO6	BT2	
	Q7	Identify any 4 alarming environmental issues in the contemporary world. Suggest any five creative solutions to ease the environmental issues of recent time?	10	C06	BT6	
		********** END **********				

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SET-02

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SCHOOL OF EDUCATION AND HUMANITIES

"End Term Examination, May-2023"

SEMESTER	**4**	**DATE OF EXAM**	**May. 24.,2023**
SUBJECT NAME	**School Organization and Management**	**SUBJECT CODE**	**EDS 207**
BRANCH	**Education**	**SESSION**	I
TIME	1.5 **Hours** (9:00-10:30)	**MAX. MARKS**	**50**
PROGRAM	**B.Ed,B.A. B.Ed. /B.Sc. B.Ed. Integrated**	**CREDITS**	**2**
NAME OF FACULTY	**Dr Kiran Gupta**	**NAME OF COURSE COORDINATOR**	**Dr Kiran Gupta**

Note: **Attempt 5 questions in all.**
Question one in Part-A is compulsory and is of 10 marks.
Attempt any four questions from Part-B
All questions carry equal marks (10 marks each)

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	Outline two key points of difference between a 'Teacher' and a 'Facilitator'	2	CO2	BT2	
	1(B)	Elaborate any four significant uses of 'Cumulative Record'	2	CO4	BT4	
	1(C)	Examine any two principles which you will keep in mind while constructing class time table of your class as a teacher.	2	CO3	BT3	
	1(D)	Illustrate four key functions of NAAC as one of the Quality Assurance Bodies.	2	CO3	BT6	
	1(E)	Highlight any two features of school with positive climate.	2	CO3	BT6	
PART-B	Q2	Define school Administration. Formulate the process of school administration.	10	CO3	BT6	
	Q3	"A competent Head is an asset to an Institution" Highlight the role and leadership qualities of a dynamic school principal.	10	CO2	BT5	
	Q4	Evaluate the role of NCTE in regulating and ensuring quality in teacher education.	10	CO2	BT5	

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	Q5	What is Total Quality Management? Elaborate its objectives and significance in a school.	10	CO3	BT6	
	Q6	Elaborate the concept of school Plant. Explain its significance for students' enhanced performance.	10	CO1	BT6	
		********** **END** **********				

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SCHOOL OF EDUCATION AND HUMANITIES

"End-Term Examination, May -2023"

SET-A

SEMESTER	**04**	**DATE OF EXAM**	**26.05.2023**
SUBJECT NAME	**National movement (1857 – 1947 A.D)**	**SUBJECT CODE**	**EDH 230 -T**
BRANCH	**Education**	**SESSION**	**Morning**
TIME	**3 hours**	**MAX. MARKS**	**80**
PROGRAM	**BA.BED**	**CREDITS**	**4 credits**
NAME OF FACULTY	**Dr. Nibedita Hazarika**	**NAME OF COURSE COORDINATOR**	**Dr. Nibedita Hazarika**

Note: **Part A: All questions are compulsory. Questions will be of short answer type (2 Marks).**
Part B: Questions will be of descriptive type. Each question (5 Marks) Attempt ANY SIX
Part C: Questions will be of descriptive type. Each question (10 Marks) Attempt ANY FOUR

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	According to D.D Kosambi there are two types of feudalism. Discuss them.	2	C01	BT2	
	1(B)	Write a note on Swami Vivekananda	2	C02	BT1	
	1(C)	Surat Split (1907) led to the splitting of the Indian National Congress. Comment	2	C03	BT3	
	1(D)	Discuss the real motives of Lord Curzon behind the partition of Bengal.	2	CO3	BT2	
	1(E)	The brutality at Jallianwala Bagh stunned the entire nation on 13th April. Elaborate	2	CO4	BT3	
PART-B	Q2	The National approach of historical writing is different from that of colonial historiography. Argue.	5	CO1	BT4	
	Q3	Write a note on the formation of the Indian National Congress in 1885.	5	CO2	BT1	

	Q4	Examine the contribution of Annie Besant in the formation to the Home Rule League	5	C03	BT4	
	Q5	Who were Morley and Minto? Discuss the Morley- Minto reforms Act, 1909.	5	CO3	BT2	
	Q6	Bhagat Singh, Rajguru and Sukhdev were sentenced to death in the Lahore conspiracy case and ordered to be hanged on 24th March, 1931. Elaborate the statement	5	C03	BT3	
	Q7	The Indian National Army (INA) failed to achieve its goal but made a significant impact on the freedom struggle. Elaborate	5	CO4	BT3	
	Q8	Examine the reasons of failure of visit of the Cripps Mission of 1942	5	CO4	BT4	
PART-C	Q9	The growth of national consciousness among Indians is attributed to several factors. Critically analyze them.	10	CO2	BT5	
	Q10	"Bengal united is a power, Bengal divided will pull in several different ways". Critically analyze.	10	CO3	BT5	
	Q11	Critically discuss the success and failures of the Civil Disobedience movement.	10	C03	BT5	
	Q12	Critically discuss the impact of the Non-Cooperation Movement.	10	CO4	BT5	
	Q13	The Quit India movement had a wider regional spread. Critically Argue	10	CO4	BT5	
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DEPARTMENT OF EDUCATION AND HUMANITIES

End Term Examination -B.A. B.Ed Sem 4
Set- B

SEMESTER	4	DATE OF EXAM	30.05.2023
SUBJECT NAME	Indian Writing in English	SUBJECT CODE	EDH 307T
BRANCH	Education and Humanities	SESSION	I
TIME	09:00 – 12:00PM	MAX. MARKS	80
PROGRAM	B.A. B.Ed	CREDITS	03
NAME OF FACULTY	Ms. Supriya Dang	NAME OF COURSE COORDINATOR	Ms. Supriya Dang

Note: All questions are compulsory in sections A, B and C.
Part A: Each question will be 5marks.
Part B: Each question will be 10 marks.
Part C: Attempt any 2 out of 3 each question will be 20 marks

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1	Who is Mani in the novel Swami and His Friends? Analyze his character.	05	CO4	BT4	
	2	Analyze chapter one of the novel "Swami and His Friends" by R.K. Narayan.	05	CO4	BT2	
	3	Comment on the Title of the poem "Obituary" by A.K. Ramanujan.	05	CO2	BT4	
	4	Analyse the concept of the essay "Tell me the weather and I will tell the man" by Nirad C. Chaudhay.	05	CO5	BT4	
	5	What is the theme of the play "Hayavadana" by Girish Karnad? Evaluate.	05	CO3	BT5	
PART-B	6	"We noticed nothing as we went, A straggling crowd of little hope," Who wrote these lines? Explain the meaning in detail.	10	CO1, CO2	BT2	
	7	Examine the central idea of the essay "Nationalism" by R.N. Tagore.	10	CO5	BT4	
PART-C	10	Discuss the Irony of the Novel Swami and Friends. How does the character of Swami transform in the novel? Explain in detail.	20	CO5	BT2	
	11	Analyze in detail the ideas and approaches to Nationalism by R.N. Tagore in the essay "Nationalism".	20	CO5	BT5	
	12	Is "An Introduction" by Kamala Das a personal or a universal poem? Justify your opinion.	20	CO1, CO2	BT5	

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DEPARTMENT OF EDUCATION AND HUMANITIES

"END TERM EXAMINATION (JAN MAY2023)"

SEMESTER	**IV**	**DATE OF EXAM**	30.05.2023
SUBJECT NAME	**School Leadership and Management**	**SUBJECT CODE**	**EDS236**
BRANCH	**Education and Humanities**	**SESSION**	**I**
TIME	09:00 – 10:30AM	**MAX. MARKS**	**50**
PROGRAM	**B.Ed/ B.Sc.B.Ed/B.A.B.Ed**	**CREDITS**	**2**
NAME OF FACULTY	**Ms Ridhi Khanna**	**NAME OF COURSE COORDINATOR**	**Ms Ridhi Khanna**

Note: Attempt all questions from PART A,B,C and D

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	Q1	"Management is doing things right and Leadership is doing right things." Conclude a differentiation between management and leadership.	5	CO1	BT3	
	Q2	Explain different Leadership and Management Theories	5	CO1	BT2	
PART-B	Q3	" Without strong visionary leadership, no strategy will be executed effectively". Comment on it. Distinguish between transactional leadership and transformational leadership	2+3	CO2, CO3	BT4	
	Q4	Explain Golesman 's 6 leadership styles?	5	CO4	BT2	
PART-C	Q5	Elaborate on different method of Training	5	CO4	BT3	
	Q6	Explain the selection process in HRM	5	CO5	BT2	
PART-D	Q7	Every day bring a choice: to practice stress or to practice peace". Reflect on statement and list out strategies to manage stress.	3+7	CO6	BT5	
	Q8	Comment on. "Conflict is the beginning of Consciousness". Explain the different Conflict management Style?	3+7	CO4, CO6	BT4	

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School of Education and Humanities

"End Term Examination, June-2023"

SEMESTER	IV	**DATE OF EXAM**	1.06.2023
SUBJECT NAME	Assessment for Learning	**SUBJECT CODE**	EDH 122 -T
BRANCH	Education	**SESSION**	I
TIME	3 hours	**MAX. MARKS**	80
PROGRAM	B.A.B.Ed +B.Sc. B.Ed	**CREDITS**	4
NAME OF FACULTY	Dr. Shweta Tewari	**NAME OF COURSE COORDINATOR**	Dr. Shweta Tewari

*Note: **Part A**: **All ten questions are compulsory** in section A. Questions will be of short answer type (2 marks each).*

*Part B: Questions are of descriptive type. Each question carries 5 marks. Attempt **any four***

*Part C: Each question is descriptive in nature, carrying 10 marks each. Attempt **any two** questions.*

*Part D: Each question is descriptive in nature, carrying 10 marks each. Attempt **any two** questions.*

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	Which is the most reliable method of central tendency and why?	2	CO3	BT2	
	1(B)	Who is a 'Sociometric star' in Sociometry?	2	CO1	BT1	
	1(C)	Differentiate prognostic and diagnostic assessment?	2	CO1	BT4	
	1(D)	Give an example of a question in achievement test that tests the critical thinking of a student on some topic.	2	CO2	BT3	
	1(E)	Name some apps that can be used for collaborative learning in classroom.	2	CO1	BT1	
	1(F)	State any two uses of Sociometry for a teacher.	2	CO1	BT3	
	1(G)	Give two examples of how problem solving can be used in a classroom.	2	CO3	BT2	
	1(H)	State the merits of maintaining teacher's	2	CO3	BT5	

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		diary.				
	1(I)	Differentiate between Assessment of learning and assessment for learning.	2	CO1	BT4	
	1(J)	What is the main difference between Collaborative and Cooperative learning	2	CO2	BT4	
	Q2 (A)	What are the purposes of remedial teaching?	5	CO4	BT2	
PART-B	Q2(B)	Introspection is not just a quality but an assessment technique. Justify if you agree/disagree.	5	CO1	BT5	
	Q2(C)	Which kind of skewness is exhibited in a class where al the scores lie unusually above 90 out of 100 in a test? Justify diagrammatically.	5	CO4	BT5	
	Q2(D)	Discuss the meaning. types and uses of grading in brief.	5	CO4	BT1	
	Q2(E)	CCE can be said to be based on the principles of constructivism. Justify your opinion on this.	5	CO2	BT5	
PART-C	Q3(A)	How can feedback (of learning) help a teacher?	10	CO4	BT4	
	Q3(B)	How can constructivism be applied to assessment? What are the challenges involved in that?	10	CO1	BT4	
	Q3(C)	What are the different types of Observation schedule? Develop a brief semi structured observation schedule of any topic of importance as a teacher.	10	CO4	BT6	
PART-D	Q4(A)	Develop a brief rubric to assess learning of any topic or skill of students at secondary level in school.	10	CO4	BT6	
	Q4(B)	Discuss the process of construction of Achievement test. Elaborate on the principles and precautions involved.	10	CO2	BT2	
	Q4(C)	How can 'Projection' be used as a technique for assessment. Explain with examples.	10	CO1	BT2	
	Q4(D)	Compute the mean , median and mode and SD for the following distribution: **Scores** **f** 90-99 2 80-89 12 70-79 22 60-69 20 50-59 14 40-49 4 30-39 1 N=75	10	CO4	BT4	
		********** **END** **********				

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Vidyaparikshat

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SCHOOL OF EDUCATION AND HUMANITIES

"End-Term Examination, May-2023"

SET-A

SEMESTER	**06**	**DATE OF EXAM**	19.05.2023
SUBJECT NAME	**Nationalism and Colonialism in Asia-1800-1950 A.D**	**SUBJECT CODE**	**EDH316-T**
BRANCH	**Education**	**SESSION**	III
TIME	**3 hours**	**MAX. MARKS**	**80**
PROGRAM	**BA.BED**	**CREDITS**	**4 credits**
NAME OF FACULTY	**Dr. Nibedita Hazarika**	**NAME OF COURSE COORDINATOR**	**Dr. Nibedita Hazarika**

Note: **Part A: All questions are compulsory. Questions will be of short answer type (2 Marks each). Part B: Questions will be of descriptive type. Each question (5 Marks) Attempt ANY SIX**

Part C: Questions will be of descriptive type. Each question (10 Marks) Attempt ANY FOUR

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	Confucianism formed the basis of Chinese Civilization. Explain its main philosophy.	2	C01	BT2	
	1(B)	Explain the events leading to the bombing of the Japanese cities of Hiroshima and Nagasaki	2	C02	BT2	
	1(C)	Who was Johannes Van Den Bosch? Discuss the culture system.	2	C03	BT2	
	1(D)	Differentiate between Imperialism and Neo-Imperialism.	2	CO3	BT4	
	1(E)	Describe the role of Sa'id Pasha in the construction of the Suez Canal (1859)	2	CO4	BT3	
PART-B	Q2	The foreign powers found a route to penetrate China and drain its economy and physically". Argue	5	CO1	BT4	

	Q3	Critically evaluate the significance of American occupation of Japan in world history.	5	CO2	BT5	
	Q4	Describe how the Portuguese came to rule occupy and rule Indonesia	5	C03	BT2	
	Q5	The failure of Ethical programmes introduced by the Dutch Government to improve the conditions of the people led to the rise of political consciousness among middle class Indonesians. Elaborate	5	CO3	BT3	
	Q6	Discuss the Ethical programme introduced by the Dutch government in Indonesia.	5	C03	BT2	
	Q7	The last phase (1945-49) of the Indonesian struggle for freedom may be termed as a 'Revolution' since Indonesia challenged the return of Dutch on one side and put up a united front against the communist threat on the other. Discuss	5	CO3	BT2	
	Q8	Critically analyse the formation of the Arab League .	5	CO4	BT4	
PA RT-C	Q9	. The decline of the Tokugawa feudalism is attributed to both internal and external causes. Critically discuss the internal causes for its decline.	10	CO2	BT5	
	Q10	Critically analyze the Japanese occupation of Indonesia.	10	CO3	BT4	
	Q11	Critically analyze the contribution of Dr. Sukarno and the Indonesian Nationalist Party towards the Indonesian Nationalist Movement.	10	C03	BT4	
	Q12	Critically evaluate the contribution of Muhammad Ali Pasha who is regarded as the founder of modern Egypt.	10	CO4	BT3	
	Q13	Critically analyse the formation of the Arab league and its failure to meet its objectives.	10	CO4	BT5	

********** END **********

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MANAV RACHNA UNIVERSITY

DEPARTMENT OF EDUCATION AND HUMANITIES

End Term Examination -B.A. B.Ed Sem VI
Set- A

SEMESTER	VI	DATE OF EXAM	22.05.2023
SUBJECT NAME	Popular Literature	SUBJECT CODE	EDH 407T
BRANCH	Education and Humanities	SESSION	II
TIME	01:00-04:00 PM	MAX. MARKS	80
PROGRAM	B.A. B.Ed	CREDITS	03
NAME OF FACULTY	Ms. Supriya Dang	NAME OF COURSE COORDINATOR	Ms. Supriya Dang

Note: All questions are compulsory in sections A, B and C.
Part A: Each question will be 5marks.
Part B: Each question will be 10 marks.
Part C: Attempt any 2 out of 3 each question will be 20 marks

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1	How would you describe the four protagonists' inner conflicts and the outward restrictions on their lives in the novel "The Female Man"?	05	CO4	BT4	
	2	Full Moon is a tale of Blandings Castle and has the usual suspects. Explain.	05	CO5	BT2	
	3	Comment on the title of the story "The Postmaster" by R.N. Tagore.	05	C2	BT4	
	4	Analyse the character of Janet in the novel "Female Man" by Joanna Russ.	05	CO4	BT4	
	5	Evaluate the theme of the novel "The Hound of Baskerville" by Arthur Conan Doyle.	05	CO3	BT5	
PART-B	6	How does the character of Jatin transform in the story "Jatin and His Friends" Explain.	10	CO1, CO2	BT2	
	7	"Phatik Chakravorti was a ringleader among the boys of the village." How would you justify this statement from the story The Homecoming?	10	CO5	BT4	
PART-C	10	How is the theme of sexual identity tackled in the novel "The Female Man"? Give reasons to justify your answer.	20	CO4	BT6	
	11	Evaluate the Humourous elements in the novel "Full Moon" by P.G. Wodehouse.	20	CO5	BT5	
	12	Do you think that The Homecoming is an emotional novel? Evaluate on the basis of Pathik's Character.	20	CO1, CO2	BT5	

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School OF EDUCATION AND HUMANITIES

"End Term Examination, 2023"

SEMESTER	6	**DATE OF EXAM**	26.05.2023
SUBJECT NAME	**International Politics**	**SUBJECT CODE**	**EDH-409-T**
BRANCH	**B.A.B.Ed**	**SESSION**	II
TIME	**3 Hours**	**MAX. MARKS**	**80**
PROGRAM	**B.A.B.Ed**	**CREDITS**	**4**
NAME OF FACULTY	**R K SANAYAIMA**	**NAME OF COURSE COORDINATOR**	**R K SANAYAIMA**

Note: PART A: Attempt all the questions in Part A (Each question carry 5 marks).
PART B: Attempt any 5 questions out of the 6 questions (Each question carry 10 marks)

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	Reflect your key understanding of International Politics as an academic discipline. Write any four scopes of International Relations?	5	CO1	BT 2	
	1(B)	What are the key principles of realism in international politics ?	5	CO2	BT 1	
	1(C)	How domestic policy are different from Foreign Policy ?	5	CO3	BT 4	
	1(D)	Predict logically the possible consequences of nuclear war?	5	CO6	BT5	
	1(E)	Define Aid in the study of international relations. Summarise any one type of Aid from the following two ? 1. Bilateral-Aid 2. Multilateral-Aid	5	CO5	BT2	
	1(f)	What is **deterrence** in the context of international relations?	5	CO5	BT2	
PART-B	Q2	Summarise the concept and practices of Diplomacy. Explain any two of the following types/methods of diplomacy? 1. Cultural Diplomacy 2. Economic Diplomacy 3. Gunboat Diplomacy	10	CO5	BT 1	

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Q3	What are the main causes of war, and how can they be addressed to prevent the outbreak of conflict?	10	CO6	BT 3	
Q4	World order as a term is used sometimes analytically, sometimes prescriptively. Both usages serve important purposes in grasping the realities of political life on a global level. Illustrate the following types of world order? 1. Uni-polar 2. Bi-polar 3. Multi-polar	10	CO6	BT3	
Q5	Explain **propaganda**. Discuss the following two types/forms of propaganda ? 1. Assertion 2. Bandwagon	10	CO4	BT2	
Q6	Reflect a comparative analysis of **Cooperative Security** and **Collective Security** ?	10	CO4	BT4	
Q7	What is **Dependency Theory** and how does it explain the relationship between developed and developing countries?	10	C05	BT3	
	********** **END** **********				

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SCHOOL OF EDUCATION AND HUMANITIES

"END-Term Examination, May -2023"

SET A

SEMESTER	**08**	**DATE OF EXAM**	20.05.2023
SUBJECT NAME	**India and the World History: 1750-2000 A.D**	**SUBJECT CODE**	**EDH 418-T**
BRANCH	**Education**	**SESSION**	I
TIME	**3 hours**	**MAX. MARKS**	**80**
PROGRAM	**BA.BED**	**CREDITS**	**4 credits**
NAME OF FACULTY	**Dr. Nibedita Hazarika**	**NAME OF COURSE COORDINATOR**	**Dr. Nibedita Hazarika**

Note: **Part A: All questions are compulsory. Questions will be of short answer type (2 Marks).**
Part B: Questions will be of descriptive type. Each question (5 Marks) Attempt ANY SIX
Part C: Questions will be of descriptive type. Each question (10 Marks) Attempt ANY FOUR

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	How did Goa become part of the Indian Republic? Explain	2	C01	BT2	
	1(B)	In which year was the five-year plan initiated with special reference to agriculture? Write a note.	2	CO1	BT1	
	1(C)	Write about the first state which demanded to be reorganized on linguistic basis in India? How did the Government meet with this demand?	2	C02	BT2	
	1(D)	What are Armed Forces Special Powers Act (AFSPA). Name two places in which it has been in place post independence?	2	CO2	BT2	
	1(E)	Mention any four major principles of Bandung Declaration.	2	C03		

	Q2	How the boundary commission created the boundaries between India and Pakistan write a note.	5	CO1	BT1	
	Q3	Describe the relevance of article 370 in Kashmir with respect to the present status	5	CO2	BT1	
	Q4	Assam passed through a difficult phase during the 1980's and 1990'S. Analyse it in the context of the Assam Movement.	5	C02	BT4	
PART-B	Q5	Write a short note on India's position in the Non-Aligned Movement (NAM)	5	C03		
	Q6	Cold war passed through many stages. Describe them.	5	C03	BT2	
	Q7	Discuss the meaning of the term 'Apartheid'.	5	C04		
	Q8	The struggle against Apartheid continued for more than seventy years in the face of the white regime's refusal to dismantle the apartheid system. Analyse the three phrases.	5	C04	BT4	
	Q9	Since Independence Kashmir has been majorly been in a state of turmoil/ crises. Critically evaluate it in the context of the crises of Kashmir.	10	CO2	BT5	
	Q10	Critically analyse the effects of the Cold war	10	CO3	BT5	
PART-C	Q11	Critically explain the concept of non-alignment and analyze the factors that led to its emergence	10	CO3	BT5	
	Q12	Mahatma Gandhi played a major role in the Anti-Apartheid movement of South Africa. Critically evaluate.	10	CO4	BT5	
	Q13	Critically analyze Nelson Mandela's contribution to the fight against apartheid in South Africa.	10	CO4	BT5	

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School OF EDUCATION AND HUMANITIES
"End Term Examination, 2023" (BSC)

SEMESTER	8	DATE OF EXAM	7.6.2023
SUBJECT NAME	Social Constructionists and Their Thoughts	SUBJECT CODE	EDH142 -T
BRANCH	Education	SESSION	I
TIME	3 Hours	MAX. MARKS	80
PROGRAM	B.A.B.Ed	CREDITS	4
NAME OF FACULTY	R K SANAYAIMA	NAME OF COURSE COORDINATOR	R K SANAYAIMA

Note: PART A: Attempt all the questions in Part A (Each question carry 5 marks).
PART B: Attempt any 5 questions out of the 6 questions (Each question carry 10 marks)

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	Reflect on your general idea of Social Contract/Political Obligation theory?	5	CO1	BT 2	
	1(B)	Elaborate on **Locke's two-stage social contract** ?	5	CO1	BT 3	
	1(C)	Discuss utilitarianism theory with reference to Jeremy Bentham's version of utilitarianism ?	5	CO2	BT 4	
	1(D)	Elaborate the key arguments of **Realism** ?	5	CO3	BT 3	
	1(E)	Discuss Plato's schemes of Education ?	5	CO5	BT 2	
	1(f)	According to Bentham, pleasure or pain could be arithmetically calculated by taking into account seven factors. Explain any four factors ?	5	C02	BT 2	
PART-B	Q2	*The Allegory of the Cave uses the metaphor of prisoners chained in the dark to explain the difficulties of reaching and sustaining a just and intellectual spirit.* Read the assertion given above carefully and explain Plato's ***The Allegory of the Cave*** ?	10	CO5	BT 4	
	Q3	Locate the rationale grounds on which Plato justifies the **Community of Wives and the abolition of Private Property** ?	10	CO5	BT 4	

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	Q4	Examine the key arguments of J S Mill on **Equal Rights for Women** ?	10	CO6	BT 5	
	Q5	Appraise Hegel's proposition of 'Absolute Idealism' ?	10	CO6	BT5	
	Q6	Explain on what rational ground the Debate on the Separation of Church and State was centred around?	10	CO4	BT4	
	Q7	Critically examine Karl Marx's Historical materialism ?	10	CO5	BT 4	
		********** **END** **********				

Aakib Khan

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MANAV RACHNA UNIVERSITY

DEPARTMENT OF Education and Humanities

"END TERM Examination, Jan-June-2023"

SEMESTER	**II**	**DATE OF EXAM**	25.05.2023
SUBJECT NAME	**Bryophytes and Pteridophytes**	**SUBJECT CODE**	**EDH132-T**
BRANCH	**Education & Humanities**	**SESSION**	II
DURATION	**3 hrs** (01:00 – 4:00PM)	**MAX. MARKS**	**80**
PROGRAM	**B.Sc. B.Ed.**	**CREDITS**	**3**
NAME OF FACULTY	**Dr. Bushra Sumaiya**	**NAME OF COURSE COORDINATOR**	**Dr. Bushra Sumaiya**

Note: Part A: All questions are compulsory (5*2=10 marks)

Part B: Attempt any three questions (3*10=30 marks)

Part C: Attempt any four questions (4*10=40 marks)

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1	Write short notes on the following-				
	(A)	Stelar system in Pteridophyte.	2	CO3	BT1	
	(B)	Evolution of gametophyte in Bryophyte.	2	CO1	BT1	
	(C)	Economic importance of Bryophytes.	2	CO1	BT1	
	(D)	Sporophyte of Anthoceros.	2	CO1	BT1	
	(E)	Heterospory and seed habit in Pteridophyte.	2	CO4	BT1	
PART-B	2	Describe the vegetative structure of the sporophyte of Psilotum.	10	CO4	BT2	
	3	Explain the sporophytic plant body of Rhynia.	10	CO3	BT2	
	4	Differentiate between 'relative age dating' and 'absolute age dating'. Give four examples of commonly used radioactive isotopes.	10	CO2	BT4	
	5	Illustrate the structure and development of sporophyte in Funaria.	10	CO1	BT3	

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PART-C	6	What is the Geologic Time Scale? Explain the Cenozoic Era in detail.	10	CO2	BT1 & BT2	
	7	Explain the sporocarp of Marsilea with a neat labelled diagram.	10	CO4	BT2	
	8	Analyze the similarities and differences between Bryophytes and Pteridophytes.	10	CO3	BT4	
	9	Evaluate the characteristic features, classification, and vegetative reproduction in Liverworts.	10	CO1	BT5	
	10	Discuss briefly the systematic position, morphology, and sexual reproduction of Selaginella.	10	CO4	BT2	

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DEPARTMENT OF SCIENCES

"End Term Examination, Jan-June, 2023"

SEMESTER	**II**	**DATE OF EXAM**	25.05.23
SUBJECT NAME	**Elasticity, Wave, Heat and Thermodynamics**	**SUBJECT CODE**	**PHH122-T**
BRANCH	**Education**	**SESSION**	II
TIME	**3 hrs** (01:00 – 04:00PM)	**MAX. MARKS**	**80**
PROGRAM	**B.Sc. B.Ed.**	**CREDITS**	**04**
NAME OF FACULTY	**Dr. Ananna Bardhan**	**NAME OF COURSE COORDINATOR**	**Dr. Ananna Bardhan**

Note: All questions are compulsory. SET

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL
PART-A	Q1	Discuss the effect of damping on oscillations and hence deduce an expression for damped harmonic oscillator.	10	CO1	BT3
PART-B	Q2	Discuss and derive Maxwell's distribution of molecular velocities in a perfect gas. Also, deduce the expressions for Average velocity, Root mean square velocity and most probable velocity.	10	CO2	BT3, BT4
PART-C	Q3	Discuss change in entropy in reversible and irreversible process. In an adiabatic process, the pressure of an ideal gas as $p = p_o - \alpha V$, when p_o and α are positive constants. Calculate the volume at which its entropy is maximum.	15	CO3	BT3, BT4
	Q4(a)	Differentiate between extensive and intensive thermodynamical variables. What do you understand by specific heat? Derive the expression Cp-Cv = R, where the symbols carry usual meaning.	10	CO3	BT3
	Q4(b)	Calculate the change in internal energy and state whether temperature will rise or fall when (i) A system absorbs 600 cal of heat and performs 420J work. (ii) No heat is absorbed by the system but 210 J work is done on it 250 cal heat is evolved by the system and 350 J work is done on the system	05	CO3	BT5
PART-D	Q5	Derive the relation between volume and temperature of a gas undergoing adiabatic changes. Further, discuss adiabatic and isothermal elasticity.	15	CO4	BT3, BT4
	Q6(a)	Discuss Carnot cycle and derive an expression for efficiency of Carnot engine	10	CO4	BT4, BT5
	Q6(b)	A Carnot engine working between a source at temperature 27°C and a sink -73°C delivers 300 calories of heat to the latter in one cycle. Calculate the work performed in joules by the engine per cycle.	05	CO4	BT6
END					

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(FORMERLY MANAV RACHNA COLLEGE OF ENGINEERING)
NAAC ACCREDITED 'A' GRADE INSTITUTION)

Declared as State Private University under section 2f of the UGC act, 1956

DEPARTMENT OF EDUCATION

"End- Term Examination, MAY'23"

Semester: II
Subject: Creating an Inclusive Classroom (PSC)
Branch: Education
Course Type: Core
Time: 1.5 hours
Max. Marks:50

Date of Exam:29/05/2023
Subject Code: EDS103
Session: II
Course Nature: Soft
Program: BSc-BEd (PSC)
Signature: HOD

Note:

- Sections A,B and C have 2 questions, carrying 5 marks each
- Section D has 2 questions, carrying 10 marks each
- All questions are compulsory, however internal choices have been given

PART-A

S.No	QUESTIONS	MARKS	BLOOMS TAXONOMY LEVEL
Q.1	Inclusion is a Universal Human Right. Discuss (5) **Or** Write a short note on National Policy for Persons with Disabilities	5	L2
Q.2	Analyze the important aspects of successful Inclusive Education (5) ***Or*** Write a short note on Sarva Shiksha Abhiyan	5	L4

PART-B

S.No	QUESTIONS	MARKS	BT LEVEL
Q.3	. Write the aims and objectives of Inclusive Education **Or** Elaborate on any 5 important characteristics of Inclusive Education	5	L2
Q.4	Describe the barriers in Inclusive Education	5	L2

PART –C

S.No	QUESTIONS	MARKS	BLOOMS TAXONOMY LEVEL
Q5.	Give the classification of Intellectual Impairment based on Intensity of Needed Supports. **Or** Explain the teaching learning principles, methods and strategies for teaching children with Intellectual Impairment	5	L4
Q.6	Shalini doesn't seem to pay attention in the class. Give a checklist for the identification and detection of possible signs and symptoms of hearing loss or impairment **by teachers**. **Or** Write red flags for Dyslexia, Dysgraphia and Dyscalculia?	5	L3

PART-D

S.No	QUESTIONS	MARKS	BLOOMS TAXONOMY LEVEL
Q.7	Examine the role of a teacher in an Inclusive set up. **Or** Write a short note on Individualized Education Plan	10	L4
Q.8	Explain the parent-school Partnership **Or** Write a short note on Universal Design in Learning	10	L3

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DEPARTMENT OF SCIENCES

"End Term Examination, June 2023"

SEMESTER	**II**	**DATE OF EXAM**	31.05.2023
SUBJECT NAME	**Thermodynamics, Equilibrium & Solutions**	**SUBJECT CODE**	**CHH238-T**
BRANCH	**B.Sc. B.Ed.**	**SESSION**	II
DURATION	**3 hrs** (01:00 – 04:00PM)	**MAX. MARKS**	**100**
PROGRAM	**B.Sc. B.Ed.**	**CREDITS**	**3**
NAME OF FACULTY	**Dr. Roopa Rani**	**NAME OF COURSE COORDINATOR**	**Dr. Roopa Rani**

Approved

***Note**: Attempt all questions.*

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	Write mathematical expression for First law of thermodynamics and explain.	4	CO1	BT1	
	1(B)	Differentiate among isothermal, isochoric, isobaric and adiabatic process with reference to first law of thermodynamics.	4	CO2	BT2	
	1(C)	Explain Hess's law of constant heat summation with suitable example.	4	CO1	BT4	
	1(D)	Define the mathematical expression for efficiency of a heat engine. How the efficiency of any engine or process can't be 100%.	4	CO1	BT1	
	1(E)	Calculate the entropy increase in the evaporation of one mole of water at 100°C. Heat of vaporization of water at 100°C is 2259.4 J/g.	4	CO1	BT1	
PART-B	2	Derive the expression for Kp and justify the law of mass action.	10	CO3	BT4	
	3	Write short notes on a) Common ion effect b) Selective precipitation	5 5	CO3	BT2	
	4	Derive the expression for solubility product of sparingly soluble salts. The solubility of silver chloride in water at 25°C is 0.00179g per litre. Calculate its solubility product at 25°C.	10	CO3	BT3	
	5	Discuss hydrolysis of weak acids and weak bases and write the mathematical expression.	5	CO3	BT3	
	6	Explain distribution law and its application to association, dissociation.	10	CO4	BT4	
	7	State Henry's law and its applications.	5	CO4	BT2	

	8	Derive how the molar mass of solute can be determined for elevation of boiling points. A solution containing 2.44g of a solute dissolved in 75g of water boiled at 100.413°C. Calculate the molar mass of the solute (K_b for water = 0.52 K Kg/mol)	10	CO4	BT5	
	9	What do you mean by buffer solution? Discuss the buffer mixture of a weak acid and its salt.	10	CO3	BT4	
	10	What is osmosis? Derive the expression showing the determination of the molar mass from osmotic pressure	10	CO4	BT3,5	

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SCHOOL OF EDUCATION AND HUMANITIES

END TERM EXAMINATION, MAY 2023

SEMESTER	08	DATE OF EXAM	2.06.2023
SUBJECT NAME	HUMAN GENETICS AND PALENTOLOGY	SUBJECT CODE	EDH411 - T
BRANCH	EDU	SESSION	(I)
TIME	3 HRS (9:00 - 12:00 PM)	MAX. MARKS	80
PROGRAM	BSc-BEd	CREDITS	4
NAMES OF FACULTY	Ms. Meenal Rawat	COURSE COORDINATOR	Ms. Meenal Rawat

Note: Attempt all the questions from part A and B, any 3 questions from part C and any 4 questions from part D.

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1	Comment on retroviral method of gene transfer.	2	CO3	BT-3	
	2	State any two ethical issues related to transgenic animal techniques.	2	CO3	BT-3	
	3	Comment on recombinant insulin.	2	CO4	BT-2	
	4	Comment on Cenozoic era	2	CO5	BT-1	
	5	Define fossils.	2	CO6	BT-1	
PART-B	6	Comment on transgenic sheeps.	3	CO4	BT-2	
	7	Comment of living fossil sphenodon.	3	CO6	BT-1	
	8	Comment on emergence and disappearance of invertebrates.	3	CO5	BT-2	
	9	Comment on enzymes in leather industry	3	CO3	BT-4	
	10	Discuss human cloning.	3	CO3	BT-3	
PART-C	11	Discuss genic balance theory.	5	CO1	BT-3	
	12	Discuss the causes, symptoms and cure of Galactosemia.	5	CO2	BT-5	

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	13	Comment on molecular diagnosis of sickle cell anemia disease.	5	CO2	BT-2	
	14	Discuss various types of banding techniques.	5	CO3	BT-4	
PART-D	15	Comment on: a) gene dosage compensation		CO1		
		b) nomenclature of chromosome subdivision c) linkage and crossing over d) normal human karyotype e) multiple sex chromosomes	10		BT-2	
	16	Comment on: a) genetic screening b) genetic engineering concept c) Eugenics d) gene therapy e) Euthenics	10	CO1	BT-2	
	17	Expand RFLP and RAPD. Write a detailed account on both the techniques. Why do we use them?	10	CO3	BT-4	
	18	Discuss in detail the concept of fossils and fossilisation.	10	CO5	BT-2	
	19	What are transgenic animals? How are they produced? Write a note on following transgenic animals: a) sheep, b) mice, c) goat, d) fish.	10	CO4	BT-4	
		********** END **********				

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SET-02

MANAV RACHNA UNIVERSITY
Declared as State Private University vide Haryana Act 26 of 2014

DEPARTMENT OF EDUCATION AND HUMANITIES

"Term End Examination, May-2023"

SEMESTER	II	DATE OF EXAM	May31,2023
SUBJECT NAME	Pedagogy of English	SUBJECT CODE	EDH 127-T
BRANCH	Education	SESSION	II
TIME	3 Hours	MAX. MARKS	80
PROGRAM	B. Ed Integrated	CREDITS	3
NAME OF FACULTY	Dr Kiran Gupta	NAME OF COURSE COORDINATOR	Dr Kiran Gupta

Note: **Attempt 7 questions in all.**
Question one in Part-A is compulsory and is of 20 marks.
Attempt any two questions from Part-B
And any 4 questions from Part-C.
All questions carry equal marks (10 marks each)

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	Appraise at least two techniques to develop writing skills in your students.	2	CO2	BT4	
	1(B)	Interpret any two points of difference between the terms "Test" and 'Quiz'.	2	CO2	BT4	
	1(C)	Examine how are Intensive Reading and Extensive Reading as types of Reading different from each other?	2	CO5	BT5	
	1(D)	Interpret any two merits of language Lab in the development of the skills of Listening and speaking.	2	CO5	BT2	
	1(E)	Elaborate, at least, two merits each of short type questions and objective Type Questions.	2	CO5	BT6	
	1(F)	Differentiate between Skimming and Scanning as techniques to increase speed of reading.	2	CO2	BT6	
	1(G)	Compile the points of difference between 'Guided Composition' and 'Free Composition'	2	CO2	BT5	

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	1(H)	Distinguish between 'Active Listening' and 'Passive Listening'	2	CO2	BT4	
	1(I)	Compare and contrast between 'Diagnostic Test' and 'achievement Test'.	2	CO5	BT5	
	1(J)	Discuss briefly how does 'Role Play' facilitate the development of Speaking skills.	2	CO5	BT5	
PART-B	Q2	Infer the Direct Method of Teaching English? Formulate its principles, merits and demerits.	10	CO4	BT2	
	Q3	Elaborate the concept and various types of Instructional Planning.	10	CO1	BT6	
	Q4	Design a lesson plan on Micro Skill of 'Introduction' with all its components.	10	CO3	BT6	
PART-C	Q5	Create at least **Five Types of Test Items** to test your students' usage of syntax.	10	CO2	BT5	
	Q6	Discuss 'Phrasing', 'columnar' and 'Key-word' techniques to increase speed of reading amongst students. Supplement your answer with relevant examples.	10	CO2	BT5	
	Q7	Explain Comprehensive and Continuous Evaluation? What are its advantages and disadvantages?	10	CO5	BT6	
	Q8	Summarize the following concepts: 1) Significance of Error Analysis for the development of English as a foreign language. 2) Significance of Language Enrichment for language Learners	5+5=10	CO5	BT5	
	Q9	Explain the skill of writing? How you as an English teacher develop writing skills in your students through different techniques?	10	CO2	BT6	
********** END **********						

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	Q.4	Compile the concept and different steps in Career Counselling'	10	CO2	BT6	
	Q.5	Appraise the 'Placement Services' as one of the services provided by school.	10	CO5	BT5	
	Q.6	Formulate the 'Humanistic Approach' of counselling. Discuss how does it help the counselee?	10	CO5	BT6	

END

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MANAV RACHNA vidyaparishad

MANAV RACHNA UNIVERSITY

Declared as State Private University vide Haryana Act 26 of 2014

DEPARTMENT OF EDUCATION AND HUMANITIES

"End Term Examination, May 2023"

SEMESTER	**II**	**DATE OF EXAM**	31.05.2023
SUBJECT NAME	Political Science: Indian Constitution	**SUBJECT CODE**	EDH140B
BRANCH	**EDUCATION & HUMANITIES**	**SESSION**	II
TIME	01:00PM – 04:00PM	**MAX. MARKS**	**100**
PROGRAM	**B.A.B.Ed.**	**CREDITS**	**04**
NAME OF FACULTY	**Dr. Arvinder Kaur**	**NAME OF COURSE COORDINATOR**	**Dr. Arvinder Kaur**

Note: All Questions are compulsory.

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(a)	Write role of political parties in India.	2	CO4	BT1	
	1(b)	What do you mean by Electoral Reform?	2	CO5	BT1	
	1(c)	Write two benefits of State-Center relationship.	2	CO3	BT1	
	1 (d)	Write two functions of Judiciary.	2	CO5	BT1	
	1(e)	Differentiate between Lok Sabha and Rajya Sabha.	2	CO3	BT4	
PART-B	2 (a)	Highlight the best and appropriate rights which are framed by our Indian Constitution. Justify why they are appropriate according to you.	5	CO2	BT5	
	2 (b)	Define Fundamental Rights. Classify the fundamental rights and duties	5	CO1	BT2	
	2 (c)	Discuss the evolution and steps of framing of Indian Constitution	5	CO1	BT1+BT2	
	2 (d)	Differentiate between Fundamental rights and Directive principles of state policy.	5	CO2	BT4	
	3	Define Constitution. Elucidate the philosophy of the constitution	10	CO2	BT1 +BT2	
PART-C	4	Discuss the characteristics of Prime Minister. Explain the power and functions of Prime Minister of India	5+ 10	CO3	BT2	
	5	Explain the concept of Tribunal. Critically analyze the role of administrative Tribunal	5+ 10	CO4	BT2+ BT4	

		in India				
	6	a) Differentiate between functions of Supreme Court and High Court b) Write various types of Constitutional Amendments	5 +5	CO4	BT2+ BT4	
	7	Discuss the process, issues and objectives of Electoral reform	10	CO5	BT2	
	8	Write short note on: a) Types of Party System in India b) Legislative Assembly	5+5	CO4	BT2	
		*******End*******				

MANAV RACHNA Vidyaparishad

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DEPARTMENT OF EDUCATION AND HUMANITIES

"End Term Examination, May 2023"

SEMESTER	II	DATE OF EXAM	2.06.2023
SUBJECT NAME	Guidance And Counselling	SUBJECT CODE	EDS- 221(B)
BRANCH	Education	SESSION	II
TIME	01:00 – 02:30PM	MAX. MARKS	50
PROGRAM	B. Ed (II,IV), B.A.B.Ed (VIII)	CREDITS	2
NAME OF FACULTY	Dr Kiran Gupta	NAME OF COURSE COORDINATOR	Dr Kiran Gupta

Note: **Attempt 5 questions in all.**
Question one in Part-A is compulsory and is of 10 marks.
Attempt any four questions from Part-B
All questions carry equal marks (10 marks each)

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	Differentiate between the terms 'Guidance' and 'Counselling'.	2	CO2	BT4	
	1(B)	Justify that 'Interpersonal Skills' are essential of a teacher as a counselor.	2	CO2	BT5	
	1(C)	Illustrate four key principles of Guidance.	2	CO5	BT2	
	1(D)	As a teacher Identify any two 'Behaviour Problems.' Elaborate any two ways to handle these problems of your students.	2	CO5	BT6	
	1(E)	List two ways to counsel each 'Gifted' and 'Creative' children.	2	CO5	BT2	
	Q.2	Explain 'Non -Directive' theory of Counselling'	10	CO2	BT4	
PART-B	Q.3	Evaluate the basic counseling skills.	10	CO2	BT5	

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MANAV RACHNA UNIVERSITY
Declared as State Private University vide Haryana Act 26 of 2014

School of Education and Humanities

"End Term Examination, June-2023"

SEMESTER	II	**DATE OF EXAM**	2.06.2023
SUBJECT NAME	Learner and Learning Process	**SUBJECT CODE**	EDH 135-T
BRANCH	Education	**SESSION**	II
TIME	3 hours (01:00–04:00 PM)	**MAX. MARKS**	80
PROGRAM	B.A.B.Ed & BSc B.Ed	**CREDITS**	4
NAME OF FACULTY	Dr. Shweta Tewari	**NAME OF COURSE COORDINATOR**	Dr. Shweta Tewari

*Note: **Part A**: **All ten questions are compulsory** in section A. Questions will be of short answer type (2 marks each).*

Part B**: Questions are of descriptive type. Each question carries 5 marks. Attempt **any four

***Part C**: Each question is descriptive in nature, carrying 10 marks each. Attempt **any two** questions.*

***Part D**: Each question is descriptive in nature, carrying 10 marks each. Attempt **any two** questions.*

	Q.NO.	QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	What do you understand by Personality?	2	CO3	BT2	
	1(B)	Which need is at the top of the Maslow's hierarchy and why?	2	CO2	BT1	
	1(C)	Name the stages of Kohlberg's Moral development stages.	2	CO4	BT1	
	1(D)	Which kind of reinforcement is not advisable for students from the teacher?	2	CO1	BT4	
	1(E)	Discuss two ways in which intelligence tests be used for the benefit of students?	2	CO2	BT5	
	1(F)	What is the difference between a 'need' and a 'drive'?	2	CO1	BT4	
	1(G)	Name one cognitive psychologist and one behaviorist psychologist.	2	CO1	BT1	

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	1(H)	Why is Psychology a positive science and not a normative science. Justify.	2	CO2	BT2	
	1(I)	Name any two verbal tests of intelligence.	2	CO2	BT1	
	1(J)	What is the difference between assimilation and accommodation?	2	CO1	BT3	
	Q2 (A)	Diagrammatically discuss the elements of the Guilford's model of intellect.	5	CO2	BT6	
PART-B	Q2(B)	Compare and Contrast the 'Openness' and 'Conscientiousness' elements in the Big Five Theory with examples.	5	CO3	BT3	
	Q2(C)	Discuss the appearance and effects of secondary sexual characteristics of adolescents.	5	CO3	BT2	
	Q2(D)	Which profession is best suited for people with high spatial intelligence according to Gardener.	5	CO2	BT4	
	Q2(E)	Explain the applications of educational psychology in teaching and learning.	5	CO1	BT4	
PART-C	Q3(A)	Discuss how the concept of Skinners operant conditioning be applied to education and learning with proper examples.	10	CO3	BT3	
	Q3(B)	How does Carl Roger's theory help a teacher establish a humanist classroom?	10	CO4	BT3	
	Q3(C)	Explain the main stages of cognitive development by Piaget.	10	CO4	BT1	
PART-D	Q4(A)	Elucidate the main tenets of the Erick Erickson's theory.	10	CO	BT2	
	Q4(B)	Discuss the main physical, social and emotional developmental factors in childhood.	10	CO3	BT1	
	Q4(C)	Elaborate the Maria Montessori's planes of development.	10	CO4	BT1	
	Q4(D)	What do you understand by creativity and creative process? What steps should a teacher take to foster creativity in children?	10	CO2	BT5	

********** **END** **********

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MANAV RACHNA UNIVERSITY

DEPARTMENT OF EDUCATION AND HUMANITIES

April-2023 PSE

~~SUPPLEMENTARY QUESTION PAPER STRUCTURE (QPS)~~

FACULTY NAME: Dr. Ritu Sharma			NAME OF COURSE COORDINATOR: Dr. Ritu Sharma		
COURSE NAME: Communicative English	COURSE CODE:EDS134	CREDIT:2	MAX. MARKS: 50	TIME DURATION: 2 Hour ~~30 Mins~~	DATE: 5/6/23
PROGRAM: B Sc. B.Ed.		SEMESTER: II			

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL
NOTE		Part A - All Questions in Part A are compulsory. Each Question carries 1 mark. Part B – Attempt any three Questions in Part B. Each question carries 5 Marks. Part C- Attempt any three Questions in Part C. Each question carries 10 Marks.			
PART-A	1(A)	Your name is Sham, isn't it ? This is an example of question tag . True or False	1	CO1	BT1
	1(B)	Change the sentence into an interrogative sentence: " Vibyor shows seven colours."	1	CO2	BT2
	1(C)	Add approriate punctuation marks : two of my friends are doctors while three are jounalists they all stay in chennai	1	CO2	BT3
	1(D)	Combine the sentences to form a compound sentence. My father is a doctor. My father is from Hisar.	1	CO2	BT1
	1(E)	Change the following sentence into its future tense : She is dancing now.	1	CO2	BT3
PART-B	Q2(A)	Discuss any two techniques of reading with advantages.	2+3	CO1	BT4
	Q2(B)	Outline elements of good communication skills.	5	CO3	BT5
	Q2(C)	Differentiate between descriptive and prescriptive approach to language.	5	CO1	BT4
	Q2(D)	Examine the steps of note making.	5	CO2	BT5
PART-C	Q3(A)	"Social media is the best invention of the modern day." Write your take for or against the statement.	10	CO3	BT5
	Q3(B)	You are Ramesh Kumar, HR Manager at Best School. Write a letter to Jain Book House placing an order for books for your school.	10	CO3	BT5
	Q3(C)	Elaborate your understnding of gender discrimination in society. What are some ways of controlling it.	10	CO4	BT1 + BT4
	Q3(D)	Examine the effectiveness of reading habits as the major ingredient towards success.	4+6	CO4	BT1 + BT3

********** END **********

MANAV RACHNA Vidyaparishad

MANAV RACHNA UNIVERSITY
Declared as State Private University vide Haryana Act 26 of 2014

MANAV RACHNA UNIVERSITY
DEPARTMENT OF SCIENCES
"End Term Examination, Jan-June-2023"

SEMESTER	**II**	**DATE OF EXAM**	06.06.2023
SUBJECT NAME	**Number Theory & Real Analysis**	**SUBJECT CODE**	**MAH122B**
BRANCH	**Mathematics**	**SESSION**	II
TIME	01:00-04:00PM	**MAX. MARKS**	**100**
PROGRAM	**B.Sc. B.Ed.**	**CREDITS**	**4**
NAME OF FACULTY	**Dr. Advin Masih**	**NAME OF COURSE COORDINATOR**	**Dr. Advin Masih**

***Note**: Part A& B : All questions are compulsory. Questions will be of short answer type (10 Marks Each).*
Part C & D : All questions are compulsory .Questions will be of descriptive type or numerical.
Each question will be of 20 marks.

	Q.NO.	QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL
PART-A	1(A)	Prove that $3^{2n+2} - 8n - 9$ by 64.	05	CO1	BT-02
	1(B)	Solve $13x \equiv 10(mod.\,28)$.	05	CO1	BT-02
PART-B	Q2(A)	If M and N are neighborhoods of a point x Show that $M \cap N$ is also a neighborhood of x.	05	CO2	BT-03
	2(B)	Let A and B are sets of real numbers . Show that $(A \cup B)' = A' \cup B'$	05	CO2	BT-03
PART-C	Q3(A)	Show that the sequence $< r^n >$ converges to zero if $\|r\| < 1$.	10	CO3	BT-02
	3(B)	Show that the sequence $< f_n >$ where $f_n = 1 + \frac{1}{3} + \frac{1}{5} + \cdots . + \frac{1}{2n+1}$ is not a Cauchy sequence.	10	CO3	BT-03
	Q4A)	Show that every bounded sequence has a limit point.	10	CO3	BT-03
	4(B)	State and prove Sandwich Theorem.	10	CO3	BT-03

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PART-D	Q5 (A)	Test the convergence of the series $1^p + \left(\frac{1}{2}\right)^p + \left(\frac{1.3}{2.4}\right)^p + \left(\frac{1.3.5}{2.4.6}\right)^p + \cdots \ldots \ldots \ldots$	10	CO4	BT-03
	5(B)	Show that $\sum_{n=1}^{\infty} \frac{1}{n^p}, p > 0$, is convergent if $p > 1$ and divergent if $p \leq 1$.	10	CO4	BT-03
	Q6(A)	Examine for convergence of the series $\sqrt{\frac{n}{n^4+2}}$	10	CO4	BT-03
	6(B)	Test for absolute convergence and conditional convergence of the series $\sum_{n=1}^{\infty} \frac{(-1)^{n+1}}{\log(n+1)}$	10	CO4	BT-03

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MANAV RACHNA Vidyaparikshat

MANAV RACHNA UNIVERSITY
Declared as State Private University vide Haryana Act 26 of 2014

Manav Rachna University, Faridabad
School of Sciences
Department of Sciences: Program Mathematics
"End Term Examination,Jan-June-2023"

SEMESTER	**II**	**DATE OF EXAM**	**06-06-2023**
SUBJECT NAME	**Calculus & Analytical Geometry-II**	**SUBJECT CODE**	**MAH119B**
BRANCH	**B.Sc B.Ed**	**SESSION**	**II**
TIME	**01:00 - 4:00 P.M**	**MAX. MARKS**	**100**
PROGRAM	**B.Sc. B.Ed.**	**CREDITS**	**4**
NAME OF FACULTY	**Dr. Advin Masih**	**NAME OF COURSE COORDINATOR**	**Dr. Advin Masih**

Note: All questions are compulsory.

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL
PART-A	1(A)	Find the equation of the sphere with the centre at (1, 1, 2) and touching the plane 2x - 2y + z = 5.	05	CO1	BT2
	1(B)	Find the equation of the cone with its vertex at (1, 1, 1) and which passes through the curve x2 + y2 = 4, z = 2.	05	CO1	BT2
Part-B	2(A)	Find the equation of the cylinder which intersects the curve ax2 + by2 + cz2 = 1, lx + my + nz = p and whose generators are parallel to z-axis.	05	CO2	BT3
	2(B)	Find the equation of the right circular cylinder whose axis is x = 2y = - z and radius 4.	05	CO2	BT3
PART-C	Q3(A)	If $u = \frac{x^{\frac{1}{4}}+y^{\frac{1}{4}}}{x^{\frac{1}{5}}+y^{\frac{1}{5}}}$, Verify Euler's Theorem.	10	CO3	BT3
	3(B)	If $z = \sqrt{x^2+y^2}$ and $x^3+y^3+3axy = 5a^2$, find the value of $\frac{dz}{dx}$ when x= a, y= a.	10	CO3	BT3
	Q4(A)	Transform the equation $\sin^2 2z\frac{d^2y}{dz^2} + \sin 4z\frac{dy}{dz} + 4y = 0$ by putting $\tan z = e^x$.	10	CO3	BT3

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	4(B)	If $f(x,y) = e^{xy}$, Expand f(x,y) by Taylors's series about the point (1,1).	10	CO3	BT4
PART-D	Q5(A)	Find the volume of solid generated by revolving $x^{\frac{2}{3}} + y^{\frac{2}{3}} = a^{\frac{2}{3}}$ about x-axis.	10	CO4	BT3
	5(B)	Find the length of the arc $x^2 + y^2 - 2ax = 0$ in the first quadrant.	10	CO4	BT4
	Q6. (A)	Find the surface of solid generated by the revolution of $r^2 = a^2 \cos 2\theta$ about initial line.	10	CO4	BT4
	Q6 (B)	The cardioid $r = a(1 + cos\theta)$ revolves around the initial line. Find the volume of the solid generated.	10	CO4	BT4

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MANAV RACHNA UNIVERSITY
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School of Education and Humanities

"End Term Examination, June-2023"

SEMESTER	**II**	**DATE OF EXAM**	06.06.2023
SUBJECT NAME	**ZOOLOGY: ANIMAL DIVERSITY - II**	**SUBJECT CODE**	EDH131-T
BRANCH	**Education**	**SESSION**	II
TIME	**3hrs.**	**MAX. MARKS**	**80**
PROGRAM	**Integrated B.Sc.B. Ed**	**CREDITS**	**3**
NAME OF FACULTY	**Ms. Eram Aziz**	**NAME OF COURSE COORDINATOR**	**Ms. Eram Aziz**

*Note: Part A: All questions are compulsory. Questions are of short answer type. Each Question carries 2 marks (5*2=10Marks).*

*Part B: Questions are of long descriptive type. Each question carries 10 marks. Attempt any three questions. (3*10=30 Marks)*

*Part C: Questions are of very long descriptive type. Each question carries 10 marks. Attempt any four questions. (4*10=40Marks)*

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	Give the characteristics of nauplius larvae with diagram	2	CO1	BT2	
	1(B)	Enumerate the salient features found in Peripatus	2	CO2	BT2	
	1(C)	Explain the pearl formation in Mollusca	2	CO2	BT2	
	1(D)	Differentiate between Bipinnaria and Auricularia larvae	2	CO3	BT3	
	1(E)	Write a short note on external morphology of Petromyzon	2	CO3	BT2	
PART-	Q2	Draw and describe the external morphology and water vascular system of Asterias	10	CO3	BT4	
		Present a comparative account of the different shells in Mollusca with reference to	10	CO2	BT4	

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B	Q3	concept of torsion and detorsion				
	Q4	Discuss the general characters and classification of Phylum Echinodermata up to orders with example	10	CO4	BT3	
	Q5	Give an account of the digestive system and circulatory system in amphioxus larvae	10	CO3	BT4	
PART-C	Q6	Compare the digestive system of Petromyzon with that of Balanoglossus	10	CO3	BT3	
	Q7	Give an account of the different modifications and adaptations in the mouth parts found in the Arthropods	10	CO1	BT3	
	Q8	Critically analyze the significant characteristics of the phylum Cyclostomata	10	CO6	BT5	
	Q9	Give a detailed account of the social behavior of honeybees	10	CO2	BT3	
	Q10	Sketch the life-cycle and metamorphosis in asterias	10	CO3	BT4	
********** END **********						

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MANAV RACHNA vidyaparikshan

MANAV RACHNA UNIVERSITY

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DEPARTMENT OF SCIENCES(MATHEMATICS)

"End Term Examination, Jan-June-2023"

SEMESTER	2nd	**DATE OF EXAM**	7.6.2023
SUBJECT NAME	Number Theory, Theory of Equ. and Matrices	**SUBJECT CODE**	MAH118B
BRANCH	PCM	**SESSION**	II
TIME	1:00 – 4:00 PM	**MAX. MARKS**	100
PROGRAM	B.Sc. B.Ed-PSC	**CREDITS**	4
NAME OF FACULTY	Dr. Dinesh Tripathi	**NAME OF COURSE COORDINATOR**	Dr. Dinesh Tripathi

Note: All questions are compulsory.

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL
PART-A	1(A)	Find the gcd (93, 81). Also write the gcd of 93, 81 as linear combination of it.	5	CO1	BT4
	1(B)	Prove that $3^{100} \cong 0(mod\ 5)$.	5	CO1	BT4
	1(C)	Using Cardon's method solve $x^3 - 27x + 54 = 0$	5	CO2	BT3
	1(D)	Solve the equation $x^4 - 8x^3 + 14x^2 + 8x - 15 = 0$, if the roots of it being in A.P.	5	CO2	BT3
PART-B	Q2	By using elementary row transformation find the inverse of $A = \begin{bmatrix} 2 & 1 & 3 \\ 1 & 0 & 1 \\ 2 & 1 & 1 \end{bmatrix}$. Also verify $A^{-1}A = I$.	10	CO3	BT4
	Q3	Find the non singular matrices P and Q such that PAQ is in normal form, where $A = \begin{bmatrix} 2 & 1 & -3 & 6 \\ 3 & -3 & 1 & 2 \\ 1 & 1 & 1 & 2 \end{bmatrix}$.	10	CO3	BT4
	Q4	Investigate the value of a and b such that the system of equations $2x + 3y + 5z = 9; 7x + 3y - 2z = 8; 2x + 3y + az = b$ have (i) no solution (ii) a unique solution (iii) infinite many solutions.	10	CO3	BT3
	Q5	Explain linear dependent and independent of vectors. Are the following vectors are linearly dependent? If yes find the relation between them; $x_1 = (1, -1, 0); x_2 = (2, 3, -2); x_3 = (-2, 0, 1)$.	10	CO3	BT3
	Q6	Find the Eigen value and Eigen vector of the matrix $\begin{bmatrix} 2 & 1 & 1 \\ 1 & 2 & 1 \\ 0 & 0 & 1 \end{bmatrix}$.	10	CO4	BT4

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	Q7	Using Cayley-Hamilton theorem find the inverse of $\begin{bmatrix} 7 & -1 & 3 \\ 6 & 1 & 4 \\ 2 & 4 & 8 \end{bmatrix}$.	10	CO4	BT4
	Q8	Diagonalised the matrix $A = \begin{bmatrix} 1 & 6 & 1 \\ 1 & 2 & 0 \\ 0 & 0 & 3 \end{bmatrix}$ and hence find A^3.	10	CO4	BT4
	Q9	Reduce the quadratic form $x^2 + 4y^2 + z^2 + 4xy + 6yz + 2xz$ in to the canonical form and find their signature and index.	10	CO4	BT4

**********END**********

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MANAV RACHNA Vidyapeeth Shiksha

MANAV RACHNA UNIVERSITY
Declared as State Private University vide Haryana Act 26 of 2014

DEPARTMENT OF SCIENCES

"End Term Examination, June-2023" (PSC)

SEMESTER	II	DATE OF EXAM	8.6.2023
SUBJECT NAME	**States of Matter and Nuclear Chemistry**	SUBJECT CODE	**CHH136T**
BRANCH	**B.Sc. B.Ed. Integrated**	SESSION	II
TIME	**3 hrs** (1:00-4:00PM)	MAX. MARKS	**80**
PROGRAM	**B.Sc. B.Ed. II sem**	CREDITS	**3**
NAME OF FACULTY	**Dr. Roopa Rani**	NAME OF COURSE COORDINATOR	**Dr. Roopa Rani**

Appointed

***Note**: Attempt all questions*

Q.NO.	QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
	Part A				
1	How the postulates of kinetic theory describe the behaviour of a real gas? Why real gas deviate from ideal behaviour?	5	CO1	L4	
2	Explain the following facts: a) Gemstones are coloured b) Law of rationality of indices	5	CO1	L4, L5	
3	How the defects in solids can enhance some property of the solids? Justify above statement with suitable example.	4	CO1	L5	
4	Differentiate among root mean square velocity, average and most probable velocity. Write their mathematical expression and relate them.	6	CO1	L4	
5	Explain in brief the Maxwell's distribution of molecular velocities.	2	CO2	L4	
6	What do you mean by Electrophoresis and Tyndall effect? Explain using suitable example	5	CO2	L3	
7	Briefly describe the thermography of phase change from liquids to solids to	5	CO2	L5	

	gases including the existence of liquid crystals state too.				
8	How can the Pearson's rule distinguish among the following? a) Hardness and softness b) Strength and Electronegativity	5	CO3	L5	
9	Describe the role of liquids as solvent and reaction regulators.	3	CO3	L3	
10	Explain the fact that acid-base strength and hardness-softness is important for interpretating relative stability of complex.	5	CO3	L5	
11	Identify the following among all, state reason also: a) Soft Base - NH_3, H_2O, OH, I^- b) Hard Acid - Pt^{2+}, Ag^+, Hg^{2+}, Li^+ c) Stable Complex - $[AgF_2]^-$, $[Cd(NH_3)_4]^{2+}$, $[CoI_6]^{3-}$, $[AgI_2]^-$	10	CO3	L6	
12	State the applications of radioactivity or radiotracers (along with their methods) in the following areas: a) Medicine b) Agriculture c) Industry d) Solubility of sparingly soluble salts e) Age of a fossil fuel	10	CO4	L6	
13	How can you differentiate between nuclear fission and fusion? Explain the complete process in the two cases.	10	CO4	L5	
14	A living plant acquired a definite proportion of C-14 in its carbon content. If the freshly cut piece of wood gives 16.1 counts per minutes per gram and an old wood gives 9.6 counts per minutes per gram of carbon, Calculate the age of wood. (Half-life of C-14 is 5770 years)	5	CO4	L6	

********** **END** **********

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MANAV RACHNA UNIVERSITY
DEPARTMENT OF SCIENCES
"PSC *Examination, Jan-June 2023"*

SEMESTER	**III**	**DATE OF EXAM**	9.6.2023
SUBJECT NAME	**REAL ANALYSIS**	**SUBJECT CODE**	**MAH219B**
BRANCH	**MATHEMATICS**	**SESSION**	I
DURATION	**3.00 Hrs.**	**MAX. MARKS**	**100**
PROGRAM	**B. Sc. B. Ed.**	**CREDITS**	**04**
NAME OF FACULTY	**Dr. Dinesh Tripathi**	**NAME OF COURSE COORDINATOR**	**Dr. Dinesh Tripathi**

***Note**:Part-A: All questions are compulsory. Part-B: Attempt any four questions.*

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	Define the greatest member of a set bounded above. Also give an example.	3	CO1	BT4	
	1(B)	State Archimedean property of real numbers.	2	CO1	BT3	
	1(C)	Define Monotonic sequence. Is the sequence $\left\{\frac{(-1)^n}{n}\right\}$ monotonic?	2	CO2	BT3	
	1(D)	Find the derived set of set of the set of natural numbers.	3	CO2	BT2	
	1(E)	Is the arbitrary union of closed sets closed? If not, then give a suitable example.	2	CO3	BT3	
	1(F)	Show that the sequence $\{f_n\}$ defined by $f_n = \sqrt{n+1} - \sqrt{n} \quad \forall\, n \in N$ is convergent.	3	CO3	BT3	
	1(G)	Let $\{f_n\}$ be a sequence having only one limit point, say l. Is it a convergent sequence? If yes, what is the point of convergence?	3	CO4	BT2	
	1(H)	Define Conditional convergence of an infinite series.	2	CO4	BT2	
PART-B	2(A)	Prove that every open interval is an open set.	7	CO1	BT4	
	2(B)	Show that $\sqrt{2}$ is not a rational number.	6	CO1	BT4	

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2(C)	Prove that the following set is neither open nor a closed set. $S = \left\{1, \frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{5}, \dots\dots\dots\dots\dots\right\}$.	7	CO1	BT4	
3(A)	State monotone convergence theorem and hence show that the sequence $\{S_n\}$, where $S_n = \frac{1}{n+1} + \frac{1}{n+2} + \cdots + \frac{1}{n+n}$ is convergent.	10	CO2	BT3	
3(B)	State Cauchy's 1st theorem. Hence, show that $\lim_{n\to\infty} \frac{1}{n}\left(1 + \frac{1}{2} + \frac{1}{3} + \cdots + \frac{1}{n}\right) = 0$.	10	CO2	BT3	
4(A)	Test for the convergence of the series $1 - \frac{1}{2\sqrt{2}} + \frac{1}{3\sqrt{3}} - \frac{1}{4\sqrt{4}} + \cdots$. Also test the series for absolute convergence.	10	CO2	BT4	
4(B)	Show that the series $\sum \frac{(-1)^{n+1}}{3n+2}$ is conditionally convergent.	10	CO3	BT4	
5(A)	State Cauchy's nth root test. Also test for the convergence of the series $\frac{x}{1} + \frac{x^2}{2} + \frac{x^3}{3} + \frac{x^4}{4} + \cdots, x > 0$.	10	CO3	BT3	
5(B)	Prove that a positive term geometric series $1 + r + r^2 + \cdots$ converges for $r < 1$ and diverges for $r \geq 1$.	10	CO4	BT3	
6(A)	State and prove Sandwich theorem.	10	CO4	BT3	
6(B)	Show that the series $\sum \frac{3.6.9\dots.3n}{7.10.13\dots.(3n+4)} x^n, x > 0$ converges for $x \leq 1$ and diverges for $x > 1$.	10	CO4	BT3	

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MANAV RACHNA UNIVERSITY
DEPARTMENT OF SCIENCES
"End Term Examination, Jan-June-2023"

SEMESTER	**IV**	**DATE OF EXAM**	19.05.2023
SUBJECT NAME	**PROBABILITY & STATISTICS**	**SUBJECT CODE**	**MAH221B-T**
BRANCH	**Mathematics**	**SESSION**	**I**
DURATION	**3 hours**	**MAX. MARKS**	**80**
PROGRAM	**B.Sc. B.Ed.**	**CREDITS**	**3**
NAME OF FACULTY	**Dr. Deepa Arora**	**NAME OF COURSE COORDINATOR**	**Dr. Deepa Arora**

Note: *All questions are compulsory.*

Q.NO.		QUESTIONS	Marks	CO ADDRESSED	BLOOM'S LEVEL
PART-A	1(A)	There are two branches of a company employing 100 and 80 employees respectively. If arithmetic mean of the monthly salaries paid by two branches is Rs. 4570 and Rs. 6750 respectively, find the arithmetic mean of the salaries of the employees of the company as a whole.	5	CO1	BT-2
	1(B)	From a moderately skewed distribution of retail prices for men's shirts it is found that the mean price is Rs. 200 and the median price is Rs. 170. If the coefficient of variation is 20%, find the Pearsonian coefficient of skewness of the distribution.	5	CO2	BT-3
	1(C)	A normal population has mean of 6.8 and standard deviation of 1.5. A sample of 400 members gave a mean of 6.75. Is the difference significant?	5	CO5	BT-3
	1(D)	Is the function defined as follows a density function? $f(x) = \begin{cases} e^{-x}, & x > 0 \\ 0, & otherwise \end{cases}$ If so, find $P(1 \leq X \leq 2)$.	5	CO4	BT-2

PART-B	Q.2	The life time of electric bulbs for a random sample of 10 from a large consignment gave the following data: Item | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 Life in '000 hrs | 4.2 | 4.6 | 3.9 | 4.1 | 5.2 | 3.8 | 3.9 | 4.3 | 4.4 | 5.6 Can we accept the hypothesis that the average lifetime of bulb is 4000 hrs?	7	CO5	BT-4
	Q.3	Nine patients, to whom a certain drug was administered, registered the following rise in blood pressure: 3, 7, 4, -1, -3, 6, -4, 1, 5 . Test the hypothesis that the drug does not raise the blood pressure.	8	CO5	BT-4
	Q.4	A die is thrown 276 times and the results of these throws are given below: No. appeared on the die | 1 | 2 | 3 | 4 | 5 | 6 Frequency | 6 | 13 | 13 | 8 | 4 | 3 Test whether the die is biased or not using chi square test.	8	CO5	BT-3
	Q.5	A manufacturer claims that only 4% of his products supplied by him are defective. A random sample of 600 products contained 36 defectives. Test the claim of the manufacturer.	7	CO5	BT-4
	Q6	A die is tossed thrice. A success is getting 1 or 6 on a toss. Find the mean and variance of the number of successes.	7	CO4	BT-3
	Q7	In 800 families with 5 children each, how many families would be expected to have (i) 3 boys and 2 girls, (ii) 2 boys and 3 girls (iii) no girl (iv) at the most two girls.(Assume probabilities for boys and girls to be equal.)	8	CO4	BT-3
	Q8	The side effects of a certain drug cause discomfort to only a few patients. The probability that any individual will suffer from these side effects is 0.002. If the drug is given to 3000 patients, what is the probability that (i) exactly 3 (ii) 5 or more than 5 will suffer side effects.	7	CO4	BT-3
	Q9	Students of a class were given a mechanical aptitude test. Their marks were found to be normally distributed with mean 60 and standard deviation 5. What percent of students scored (i) More than 60 marks? (ii) Less than 56 marks (iii) Between 45 and 65 marks?	8	CO4	BT-3

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School of Education and Humanities

"End Term Examination, June-2023"

SEMESTER	IV	DATE OF EXAM	19.05.2023
SUBJECT NAME	ZOOLOGY- Animal Physiology and Endocrinology	SUBJECT CODE	EDH225-T
BRANCH	Education	SESSION	I
TIME	3hrs.	MAX. MARKS	80
PROGRAM	Integrated B.Sc.B. Ed	CREDITS	3
NAME OF FACULTY	Ms. Eram Aziz	NAME OF COURSE COORDINATOR	Ms. Eram Aziz

*Note: Part A: All questions are compulsory. Questions are of short answer type. Each Question carries 2 marks (5*2=10Marks).*

*Part B: Questions are of long descriptive type. Each question carries 10 marks. Attempt any three questions. (3*10=30 Marks)*

*Part C: Questions are of very long descriptive type. Each question carries 10 marks. Attempt any four questions. (4*10=40Marks)*

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	Differentiate between poikilotherms and homeotherms.	2	CO4	BT4	
	1(B)	According to IUB how are enzymes classified? Explain with examples.	2	CO1	BT2	
	1(C)	Draw a flow chart to show the composition of human blood	2	CO3	BT3	
	1(D)	Define a synapse. Illustrate its structure.	2	CO5	BT2	
	1(E)	Enumerate the function and location of pituitary gland	2	CO6	BT1	
PART-	Q2	Explain the muscle contraction mechanism in detail with reference to sliding filament theory	10	CO5	BT2	
	Q3	Illustrate and explain the structure of neuron and physiology of nerve transmission	10	CO5	BT4	

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	Q4	Describe in detail the process of urine formation in humans	10	CO4	BT3	
	Q5	Write a short note on homeostasis as a mechanism of self-regulation in living beings. Illustrate with suitable example	10	CO4	BT3	
PART-C	**Q6**	Explain in detail transport of respiratory gases and biochemistry of respiratory exchange.	10	CO2	BT2	
	Q7	Give an account of digestion, absorption and assimilation of digested food materials.	10	CO1	BT3	
	Q8	Describe thermoregulation classification in animals and their adaptive behaviors to ambient environment.	10	CO4	BT4	
	Q9	Elucidate the structure and function of human heart in double circulation with suitable diagrams	10	CO3	BT3	
	Q10	Explain the importance of endocrine glands. Write in detail the structure, secretion and mode of hormone action of pituitary gland	10	CO6	BT2	
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MANAV RACHNA UNIVERSITY

DEPARTMENT OF Education and Humanities

"END TERM Examination, Jan-June-2023"

SEMESTER	IV	DATE OF EXAM	22.05.2023
SUBJECT NAME	Angiosperm Anatomy, Evolution and Economic Botany	SUBJECT CODE	EDH224-T
BRANCH	Education & Humanities	SESSION	Morning
DURATION	3 hrs	MAX. MARKS	80
PROGRAM	B.Sc. B.Ed.	CREDITS	3
NAME OF FACULTY	Dr. Bushra Sumaiya	NAME OF COURSE COORDINATOR	Dr. Bushra Sumaiya

*Note: Part A: All questions are compulsory (5*2=10 marks)*

*Part B: Attempt any three questions (3*10=30 marks)*

*Part C: Attempt any four questions (4*10=40 marks)*

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1	Write botanical name, family, part used and economic importance of the following-				
	(A)	Cinchona	2	CO3	BT1	
	(B)	Saffron	2	CO3	BT1	
	(C)	Tea	2	CO3	BT1	
	(D)	Teakwood	2	CO3	BT1	
	(E)	Coconut	2	CO3	BT1	
PART-B	2	Describe the characteristics of meristematic tissue and its different types based on plane of division.	10	CO1	BT2	
	3	Give a detailed account of wood and its composition.	10	CO2	BT2	
	4	Elaborate on the structure of stomata along with a diagram.	10	CO1	BT2	
	5	Write a detailed note on the general characteristics, types, and functions of sclerenchyma along with diagrams.	10	CO2	BT1	

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PART-C	6	Give a brief account of the origin of life.	10	CO4	BT2	
	7	Diagrammatically represent the following- (a) Transverse section of monocot root (b) Transverse section of dicot leaf	5+5	CO2	BT3	
	8	Critically evaluate Darwin's theory of evolution.	10	CO4	BT5	
	9	Explain the following- (a) Annual rings (b) Cells in vascular tissue	5+5	CO5	BT2	
	10	Differentiate between the following- (a) Root and stem (b) Tension wood and compression wood	5+5	CO5	BT4	

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DEPARTMENT OF SCIENCES

"End Term Examination, Jan-June-2023"

SEMESTER	IV	DATE OF EXAM	30.05.2023
SUBJECT NAME	ORGANIC CHEMISTRY-II	SUBJECT CODE	CHH313
BRANCH	EDUCATION	SESSION	I
DURATION	3 HOURS	MAX. MARKS	80
PROGRAM	B.Sc. B.Ed IV Sem	CREDITS	3
NAME OF FACULTY	DR. EKTA RAWAT	NAME OF COURSE COORDINATOR	DR. EKTA RAWAT

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Note: All questions are compulsory.

	Q.NO.	QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL
PART-A	1(a)	Write a short note on Bouveault –Blanc reduction.	3	CO1	BT3
	1(b)	What are glycols? Discuss the oxidative cleavage of 1,2-glycerols with periodic acid. What is the utility of this reaction?	7	CO1	BT3
	2(a)	Give any two methods of synthesis of aldehydes.	4	CO2	BT2,BT3
	2(b)	Write the detailed mechanism of Cannizaro reaction.	6	CO2	BT3, BT4
PART-B	3(a)	Discuss applications of malonic ester in synthesis of: (i)Barbituric acid (ii) Amino acid (glycine)	3+6=9	CO3	BT3,BT4
	3(b)	Why α-hydrogens are acidic in nature in aceto acetic ester?	5	CO3	BT3,BT4
	3(c)	How will you synthesize the following from ethyl acetoacetate (give one example of each) : (i)α,β-unsaturated carboxylic acids (ii) Dicarboxylic acids	5+5=10	CO3	BT2,BT3
	3(d)	What do you understand by keto-enol tauromerism? Give facts for stability of both keto and enol form.	6	CO3	BT2,BT3
PART C	4 (a)	Discuss the action of nitrous acid on primary and secondary amines.	10	CO4	BT3,BT4
	4(b)	Write short note on Gabriel Phthalimide reaction.	5	CO4	BT2,BT3
	4(c)	How amines can be prepared by reduction of following compounds: (i) Nitro compounds (ii) Nitriles	4+4=8	CO4	BT2,BT3
	4(d)	Why phenol cannot be used for commercial synthesis of Picric acid? Discuss the method used for its commercial preparation. What are the applications of Picric acid?	7	CO4	BT2,BT3

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School of Education and Humanities

"End Term Examination, May-2023"

SEMESTER	IV VIII	**DATE OF EXAM**	30.05.2023
SUBJECT NAME	**Guidance and Counselling**	**SUBJECT CODE**	**EDS221(B)**
BRANCH	**Education**	**SESSION**	I
TIME	1.5 hours (9:00–10:30AM)	**MAX. MARKS**	**50**
PROGRAM	**B.Ed (II,IV) B.A.B.Ed (VIII)**	**CREDITS**	**2**
NAME OF FACULTY	**Dr. Shweta Tewari**	**NAME OF COURSE COORDINATOR**	**Dr. Shweta Tewari**

Note: *Part A: Questions will be of short answer type (2 marks each). All questions are compulsory*

Part B: Questions are of descriptive type. Each question carries 5 marks. Attempt any two questions.

Part C: Each question is descriptive and explanatory carrying 10 marks each. Attempt any one questions.

Part D – Each question is descriptive and explanatory carrying 10 marks each. Attempt any two questions.

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	How is Counselling different from Guidance?	2	CO1	BT4	
	1(B)	What do we mean by active listening?	2	CO2	BT2	
	1(C)	Discuss the ways of ensuring Confidentiality in Counselling procedures.	2	CO2	BT1	
	1(D)	What principle works behind directive and non-directive counselling.	2	CO1	BT4	

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	1(E)	What do you mean by incongruence?	2	CO3	BT2	
PART-B	Q2 (A)	CBT and RET have a similar approach but different applications. Explain with an example.	5	CO3	BT4	
	Q2(B)	What kind of Vocational Guidance should be given at the senior secondary level of schools?	5	CO1	BT1	
	Q2(C)	What is bullying? How can it be addressed through Counselling?	5	CO3	BT1	
PART-C	Q3(A)	Discuss the main functions and merits of educational guidance in schools?	10	CO1	BT5	
	Q3(B)	Explain the various ways of rapport building in counselling.	10	CO2	BT1	
PART-D	Q4(A)	Discuss the main skills of a counsellor.	10	CO2	BT1	
	Q4(B)	How does the knowledge of counselling and guidance help in addressing anxiety?	10	CO3	BT4	
	Q4(C)	Discuss the factors affecting individual career choices	10	CO4	BT1	

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DEPARTMENT OF SCIENCES (PROGRAM-CHEMISTRY)

"End Term Examination, Jan-June-2023"

SEMESTER	V (PSC)	DATE OF EXAM	5/6/23
SUBJECT NAME	Transition Elements Coordination Compounds and Chemical Kinetics	SUBJECT CODE	CHH312T
BRANCH	Education	SESSION	II
TIME	1:00 – 4:00 PM	MAX. MARKS	80
PROGRAM	BSc BEd	CREDITS	3
NAME OF FACULTY	Dr. A. Jayamani	NAME OF COURSE COORDINATOR	Dr. A. Jayamani Approved

***Note**: All questions are compulsory. Kindly allow scientific calculator.*

	Q.NO.	QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	Q1(A)	Why transition metals have variable oxidation states?	2	CO1	BT2	
	1(B)	What are binary compounds?	2	CO1	BT2	
	1(C)	Why Zr and Hf have the same atomic radius?	2	CO1	BT3	
	1(D)	In which method tungsten is extracted?	2	CO1	BT1	
	1(E)	Mention any two methods for separating lanthanides and actinides	2	CO1	BT2	
PART-B	Q2(A)	What is the primary and secondary valency in $[CoCl_2(en)_2]$?	2	CO2	BT3	
	2(B)	Identify the ligands, coordination number and oxidation states of $[PtCl_2(NH_3)_4][PtCl_4]$.	2	CO2	BT3	
	2(C)	What is a chelating ligand? Give example	2	CO2	BT2	
	2(D)	Which complexes will not show optical isomerism?	2	CO2	BT2	
	2(E)	Is $[Cr(NH_3)_6]^{3+}$ paramagnetic or diamagnetic?	2	CO2	BT1	

PART- C	3(A)	Explain rate and order of a reaction with examples.	6	CO3	BT2	
	3(B)	Explain how radioactive decay is a first order reaction.	4	CO3	BT3	
	4(A)	Explain in detail on any two methods for determining the order of a reaction?	6	CO3	BT2	
	4(C)	Calculate the value of Ea, if the rate constants of a reaction occurred at 500K and 700 K are 0.02 S^{-1} and 0.07 S^{-1}, respectively (log3.5 = 0.544).	4	CO3	BT4	
	5(A)	Explain collision theory with proper illustrations	6	CO3	BT3	
	5(B)	Write short note on activation energy	4	CO3	BT2	
PART- D	6(A)	Differentiate physisorption and chemisorption processes	4	CO4	BT1	
	6(B)	What is a catalyst? How they are classified explain with examples	6	CO4	BT2	
	7(A)	Describe how the equilibrium exists between adsorbate and adsorbent system using Langmuir adsorption isotherm.	6	CO4	BT2	
	7(B)	Write down the assumptions and equation of Gibbs adsorption isotherm.	4	CO4	BT1	
	8(A)	Write down the application and demerits of BET adsorption isotherm and Explain different types of BET adsorption isotherms.	10	CO4	BT3	
	********** END **********					

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DEPARTMENT OF SCIENCES

"End Term Examination, Jan-June-2023"

SEMESTER	**VI**	**DATE OF EXAM**	19.05.2023
SUBJECT NAME	**Groups and Rings**	**SUBJECT CODE**	MAH 320B
BRANCH	**MATHEMATICS**	**SESSION**	II
DURATION	**3 hrs**	**MAX. MARKS**	**100**
PROGRAM	**B.Sc. B.Ed.**	**CREDITS**	**4**
NAME OF FACULTY	**Mrs. Khushali Tyagi**	**NAME OF COURSE COORDINATOR**	**Mrs. Khushali Tyagi**

Note: All questions are compulsory.

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	If G = {0, 1,2,3,4,5}and Binary operation is $+_6$, Then prove that G is a cyclic group and show that 1, 5 are its generators.	5	CO1	BT2	1.1.1 2.1.1 3.2.2
	1(B)	Find the right cosets of the subgroup {1, -1} of the Group {1,-1, i,-i} with respect to usual multiplication.	5	CO1	BT2	1.1.1 2.1.1 3.2.2
PART-B	2(A)	If G is a cyclic Group of order 12, find Aut(G).	5	CO2	BT3	1.1.1 2.1.1 3.2.2
	2(B)	Multiply the cycles (1 2 3) and (5 6 4 1) represented in a permutation of degree 6 on {1, 2, 3,4,5,6}	5	CO2	BT3	1.1.1 2.1.1 3.2.2
PART-C	3(A)	Prove that the set {0,1,2,3,4,5} with addition modulo 6 and multiplication modulo 6 as composition is a ring.	10	CO3	BT3	1.1.1 2.1.1 3.2.2
	3(B)	Define Integral Domain. Prove that every field is an Integral Domain but converse is not true.	10	CO3	BT3	1.1.1 2.1.1 3.2.2

	3(C)	Define centre of ring. Show that the set of matrices $\begin{bmatrix} a & b \\ 0 & c \end{bmatrix}$ is a subring of the ring of 2 x 2 matrices with integral elements.	10	CO3	BT4	1.1.1 2.1.1 3.2.2
	3(D)	Prove that the intersection of two left ideals of a ring R is a left ideal of the ring R.	10	CO3	BT4	1.1.1 2.1.1 3.2.2
PART-D	4(A)	Define ring Homomorphism. If $Z\sqrt{2} = \{m + n\sqrt{n} : m, n \text{ are integers}\}$ then prove that f: $Z[\sqrt{2}] \rightarrow Z[\sqrt{2}]$ defined as $f(m + n\sqrt{2}) = m\text{-}n\sqrt{2}$ is a homomorphism.	10	CO4	BT3	1.1.1 2.1.1 3.2.2
	4(B)	Define maximal and Prime ideals of ring R with examples. Define units and associates.	10	CO4	BT3	1.1.1 2.1.1 3.2.2
	4(C)	Show that $< x +2>$ is a maximal ideal of Q[x] and hence $\frac{Q[X]}{<X+2>}$ is a field.	10	CO4	BT4	1.1.1 2.1.1 3.2.2
	4(D)	Define Einstein criteria of Irreducibility over Q. show that $x^3 - 2$ is irreducible over Q	10	CO4	BT4	1.1.1 2.1.1 3.2.2

MANAV RACHNA UNIVERSITY

DEPARTMENT OF SCIENCES

"End Term Examination, Jan-June-2023"

SEMESTER	**VI**	**DATE OF EXAM**	22.05.2023
SUBJECT NAME	**Electrochemistry & Photochemistry**	**SUBJECT CODE**	**CHH314-T**
BRANCH	B.SC-B.Ed	**SESSION**	II
DURATION	**3 hrs**	**MAX. MARKS**	**80**
PROGRAM	**B.Sc B.Ed**	**CREDITS**	**3**
NAME OF FACULTY	**Dr. Harsha Devnani**	**NAME OF COURSE COORDINATOR**	**Dr. Harsha Devnani** Arpit Sand

Note: Part-A: Attempt all questions.
Part-B: Attempt any three questions.

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	Explain the terms electrode potential and standard electrode potential.	4	CO2	BT2	
	1(B)	The cell potential is a a. Colligative property b. Thermodynamic property c. Intensive property d. Extensive property Give reasoning for your answer.	4	CO2	BT4	
	1(C)	How is specific conductance related to equivalent conductance and molar conductance?	4	CO1	BT2	
	1(D)	What is meant by ionic strength of a solution? Calculate the ionic strength of a solution prepared by mixing 50 ml of 0.2 M KNO_3, 20 mL of 0.15 K_2SO_4 and 30 mL of $Cu(NO_3)_2$.	4	CO1	BT3	
	1(E)	State and explain Kohlrausch's law.	4	CO1	BT1	
PART-B	Q2(A)	What are concentration cells? Derive expressions for the EMFs of concentration cells without transference.	10	CO3	BT2	
	2(B)	Describe the functioning of H_2-O_2 fuel cell.	10	CO3	BT2	

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Q3(A)	Discuss the principle underlying potentiometric titrations. How would you carry out potentiometric titration of a solution of HCl against a standard solution of NaOH?	10	CO3	BT4	
3(B)	State and explain Einstein law of photochemical equivalence. What is meant by quantum yield of a photochemical process?	10	CO4	BT1,2	
Q4(A)	A 0.005 M aqueous solution of a certain substance absorbs 15% of the incident light in a Lambert-Beer law cell of path length 2 cm. Calculate the concentration required for 90% absorption of the incident light.	10	CO4	BT3	
4(B)	Write short notes on: a. Pb Battery b. Ni-Cd Cells	10	CO3	BT2	
Q5	What are the main consequences of light absorption? Describe and discuss the Jablonski diagram for depicting various photophysical processes. What are radiative and non-radiative transitions?	20	CO4	BT2,4	
Q6(A)	Discuss briefly glass electrode for pH determination. Also, discuss its merits and demerits.	10	CO3	BT2,4	
6(B)	What is chemiluminescence? Discuss the mechanism of chemiluminescence in anion-cation reactions.	10	CO4	BT1,4	

********** END **********

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MANAV RACHNA UNIVERSITY

Declared as State Private University vide Haryana Act 26 of 2014

MANAV RACHNA UNIVERSITY
DEPARTMENT OF SCIENCES (PHYSICS)
"Endterm Examination, Jan-July-2023"

SEMESTER	IV	**DATE OF EXAM**	22.05.2023
SUBJECT NAME	Optics	**SUBJECT CODE**	PHH227-T
BRANCH	Education (B.Sc Bed)	**SESSION**	I
TIME	09:00 – 12:00PM	**MAX. MARKS**	80
PROGRAM	B.Sc BEd	**CREDITS**	3
NAME OF FACULTY	Dr. Shiv Kumar Dixit	**NAME OF COURSE COORDINATOR**	Dr. Shiv Kumar Dixit

Note: All questions are compulsory.

Set-A

	Q.NO.	QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL
PART-A	Q1	What do you mean by total internal reflection? Explain it. In a Michelson interferometer 200 fringes cross the field of view when the movable mirror is displaced through 0.0589 mm. calculate the wavelength of monochromatic light used.	10	CO1	L2
PART-A	Q2	Derive an expression for ratio of intensities of central maxima and the secondary maxima of Fraunhoffer diffraction at single slit.	10	CO2	L1
PART-B	Q3	State Brewster's law and prove that $r + p = 90^0$. A glass plate is to be used as a polarizer. Find the angle of polarization for it, also find the angle of refraction. Given μ for glass = 1.54.	10	CO3	L3

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	Q4	Define law of Malus and calculate the specific rotation of the plane if the polarization is turned through 30^0 after traversing 25cm length of 30% sugar solution.	5	CO3	L4
PART-C	Q5	What is meant by quarter wave plate, Half wave plate, and optical activity? Calculate the thickness of a Mica sheet required for making a quarter wave plate λ = 5460 A°. The Indices of refraction for the o-ray and e - rays in mica are 1.586 and 1.592.	15	CO3	L3
	Q6	Draw the block diagram of optical fiber communication system and explain the function of each block. Write five advantages of optical fiber communication system. An optical fiber has the following characteristics: Fiber index 1.36 and relative difference in index Δ = 0.025. Find the numerical aperture and the acceptance angle.	15	CO4	L3
	Q7	What are the main components of LASER? Explain the construction and working of Ruby laser.	15	CO4	L3

********** END **********

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MANAV RACHNA UNIVERSITY

MANAV RACHNA UNIVERSITY

DEPARTMENT OF SCIENCES

"End Term Examination, Jan-June-2023"

SEMESTER	**VI**	**DATE OF EXAM**	24.05.2023
SUBJECT NAME	**Relativity and Quantum Mechanics**	**SUBJECT CODE**	**PHH331P-T**
BRANCH	**Education**	**SESSION**	II
DURATION	**3 Hrs**	**MAX. MARKS**	**80**
PROGRAM	**B.Sc. B.Ed.**	**CREDITS**	**3**
NAME OF FACULTY	**Ms. Moditma**	**NAME OF COURSE COORDINATOR**	**Ms. Moditma**

Note: All questions are compulsory.

	Q.NO.	QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	Q1	A beam of particles travels at the speed of 0.9 c. At this speed, the mean lifetime as measured in the laboratory frame is 5×10^{-6} s. What is the proper life time of the particles?	3	CO1	BT2	
	Q2	Given the wave function $\psi(x,t) = 3x^2 e^{-iwt}$. Find the value of $\hat{x}\hat{p}\psi$.	5	CO3	BT2	
	Q3	Show that $(\hat{x}\hat{x}\hat{p} - \hat{p}\hat{x}\hat{x})\psi = 2i\hbar x\psi$.	5	CO3	BT3	
PART-B	Q4	What do you understand by "length contraction" and "time dilation" in Einstein's special theory of relativity? Using Lorentz transformation equations, derive an expression for time dilation in a frame moving with respect to an observer at rest.	7	CO1	BT3	
	Q5	State the Heisenberg's Uncertainty Principle. Use the principle to derive an expression for the ground state energy of a harmonic oscillator.	10	CO2	BT4	
	Q6	What do you understand by: (i) Stefan-Boltzmann law (ii) Wien's displacement law If the total power radiated per unit area by the Sun is 75 MW/m^2, what would be the temperature of the surface of the Sun. [Given that $\sigma = 5.6 \times 10^{-8}\ W/m^2K$]	10	CO4	BT3	
PART-C	Q7	Derive the time-dependent form of Schrödinger's equation. **OR** Consider a particle confined to move in a 1-D box of length "L". Show that the energy Eigen states are described by: $E = \frac{n^2h^2}{8mL^2}$	20	CO3	BT4	
	Q8	Considering photons to follow Bose-Einstein statistics, derive the Planck's radiation law for emission of radiation from a black body. **OR** Considering electrons in a metal to follow Fermi-Dirac statistics, find the expression for Fermi energy of a metal.	20	CO4	BT4	

********** **END** **********

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MANAV RACHNA UNIVERSITY

DEPARTMENT OF Education and Humanities

"END TERM Examination, Jan-June-2023"

SEMESTER	VI	DATE OF EXAM	24.05.2023
SUBJECT NAME	Plant Physiology and Metabolism	SUBJECT CODE	EDH310-T
BRANCH	Education & Humanities	SESSION	II
DURATION	3 hrs	MAX. MARKS	80
PROGRAM	B.Sc. B.Ed.	CREDITS	3
NAME OF FACULTY	Dr. Bushra Sumaiya	NAME OF COURSE COORDINATOR	Dr. Bushra Sumaiya

*Note: Part A: All questions are compulsory (5*2=10 marks)*

*Part B: Attempt any three questions (3*10=30 marks)*

*Part C: Attempt any four questions (4*10=40 marks)*

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1	Write short notes on the following-				
	(A)	Florigen concept	2	CO4	BT1	
	(B)	Photorespiration in plants	2	CO5	BT1	
	(C)	Imbibition	2	CO1	BT1	
	(D)	Photosynthetic pigments	2	CO5	BT1	
	(E)	Photomorphogenesis	2	CO3	BT1	
PART-B	2	Describe the mechanism of stomatal opening and closing and the role of K^+ and Abscisic acid in it.	10	CO1	BT2	
	3	Discuss the Munch's Mass Flow Hypothesis.	10	CO2	BT2	
	4	What is Respiration? Explain in detail the mechanism of Krebs cycle.	10	CO5	BT1 & BT2	
	5	Summarize the deficiency symptoms of various macro-nutrients and micro-nutrients in plants.	10	CO3	BT4	

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PART-C	6	Describe the Calvin cycle of photosynthesis in detail.	10	CO5	BT2	
	7	Explain the role of plant hormones with special reference to the discovery, structure and mode of action of gibberellins.	10	CO4	BT2	
	8	Give the schematic representation of the following- (a) Photophosphorylation (b) Glycolysis	10	CO5	BT1	
	9	Differentiate between the following- (a) Short day and long day plants (b) Aerobic and anaerobic respiration	10	CO5	BT4	
	10	Illustrate the CAM pathway of storing CO_2 produced by plants?	10	CO5	BT3	

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SET-01

MANAV RACHNA UNIVERSITY
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DEPARTMENT OF EDUCATION AND HUMANITIES

"Term End Examination, May-2023"

SEMESTER	**6**	**DATE OF EXAM**	**May 24 2023**
SUBJECT NAME	**Pedagogy of English**	**SUBJECT CODE**	**EDH- 127-T**
BRANCH	**Education**	**SESSION**	**II**
TIME	**3 Hours**	**MAX. MARKS**	**80**
PROGRAM	**B.A. B. Ed Integrated**	**CREDITS**	**3**
NAME OF FACULTY	**Dr Kiran Gupta**	**NAME OF COURSE COORDINATOR**	**Dr Kiran Gupta**

Note: **Attempt 7 questions in all.**
Question one in Part-A is compulsory and is of 20 marks.
Attempt any two questions from Part-B
And any 4 questions from Part-C.
All questions carry equal marks (10 marks each)

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	Distinguish between 'loud Reading' and silent Reading'.	2	CO2	BT4	
	1(B)	Develop any Two games to enhance Listening Skills in students.	2	CO2	BT4	
	1(C)	Determine two significant advantages of Picture Composition as an activity to develop Speaking Skills in Students.	2	CO5	BT5	
	1(D)	Illustrate with example the term" Multi Media" outline any two advantages of Multi Media in language development.	2	CO5	BT2	
	1(E)	Infer the terms 'Evaluation' and 'Assessment'.	2	CO5	BT2	
	1(F)	Construct two test items to test learners' vocabulary of English language.	2	CO2	BT6	
	1(G)	Compile the points of difference between 'Guided Composition' and 'Free Composition'	2	CO2	BT5	
	1(H)	Discuss briefly any two games to develop 'Reading skills' in Students.	2	CO2	BT5	

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(PTO)

	1(I)	Compare and contrast between 'Diagnostic Test' and 'Achievement Test'.	2	CO5	BT5	
	1(J)	Distinguish between 'Active Listening' and 'Passive Listening'.	2	CO5	BT4	
PART-B	Q2	Explain the concept, Rationale as well as various elements of Cooperative Approach. Compile any two significant techniques to conduct cooperative teaching.	2+2+2+3	CO4	BT6	
	Q3	Develop different linguistic principles which should be kept in mind while teaching English as a second language.	10	CO1	BT6	
	Q4	Design a lesson plan on Micro Skill of Stimulus Variation with all its components.	10	CO3	BT6	
PART-C	Q5	Compare and contrast "Objective", Short-Answer type" and long answer type questions in English Language. Give at least two examples of each.	10	CO2	BT5	
	Q6	Summarize the skill of Speaking? Elaborate the techniques you will use to develop the skill of Speaking of your students?	10	CO2	BT5	
	Q7	Create at least **Five Types of Test Items** to test your students' usage of syntax.	10	CO5	BT6	
	Q8	Explain Comprehensive and Continuous Evaluation? What are its advantages and disadvantages?	10	CO5	BT5	
	Q9	Discuss the "Phonic Method" and "Whole Word Method" of Reading? Supplement your answer with relevant examples.	10	CO2	BT6	
********** END **********						

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MANAV RACHNA UNIVERSITY

DEPARTMENT OF SCIENCES

"End-Term Examination, Jan-July-2023" *Set A*

SEMESTER	**VI**	**DATE OF EXAM**	26 - 5 -2023
SUBJECT NAME	**Atomic and Molecular Physics**	**SUBJECT CODE**	**PHH432-T**
BRANCH	**Education**	**SESSION**	II
TIME	01:00 – 04:00PM	**MAX. MARKS**	**80**
PROGRAM	**B.Sc. B.Ed.**	**CREDITS**	**4**
NAME OF FACULTY	**Dr. Sandeep Kumar**	**NAME OF COURSE COORDINATOR**	**Dr. Sandeep Kumar**

Note: All questions are compulsory.

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A & B	Q 1(A)	The wavelength of the second member of Balmer series of hydrogen is 4861 Å. Calculate the wavelength of the first member.	5	CO1	BT1, BT2	
	Q 1(B)	Using Bohr theory, Calculate the radius of the first orbit of the electron moving around the nucleus.	5	CO1	BT1	
	Q2(A)	Describe L-S coupling with an example.	5	CO2	BT2	
	Q2(B)	Describe Lande interval rule.	5	CO2		
PART-C & PART-D	Q3	Discuss the origins of the various types of molecular spectra.	10	CO3	BT2, BT3, BT4	
	Q4	Write down the expression for the energy of a rigid rotator of a diatomic molecule and draw the diagram of rotational energy levels.	10	CO3	BT4, BT5	
	Q5	Obtain an expression for the vibrational energy of a diatomic molecule for the potential energy given by U = $(1/2)k(r - r_e)^2$, where k is constant.	10	CO3	BT1, BT2, BT4	
	Q6	The moment of inertia of CO molecule is 3.5×10^{-46} Kg-m^2. Find the energy (in electron-volt), and the angular velocity in the lowest rotational energy level of the CO molecule.	10	CO3	BT1, BT2, BT4	
	Q7	Write down the differential form of Maxwell's equations with their physical significances. Explain displacement current.	10	CO4	BT1, BT2, BT4	
	Q8	Discuss the reflection of a plane wave at normal incidence and Calculate the reflection and transmission coefficient.	10	CO4	BT1, BT2, BT4	

********** END **********

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School of Education and Humanities

"End Term Examination, June-2023"

SEMESTER	**VI**	**DATE OF EXAM**	26.05.2023
SUBJECT NAME	**ZOOLOGY- Developmental Biology and Applied Zoology**	**SUBJECT CODE**	EDH311-T
BRANCH	**Education**	**SESSION**	II
TIME	**3hrs.**	**MAX. MARKS**	**80**
PROGRAM	**Integrated B.Sc. B. Ed**	**CREDITS**	**3**
NAME OF FACULTY	**Ms. Eram Aziz**	**NAME OF COURSE COORDINATOR**	**Ms. Eram Aziz**

***Note**: Part A: All questions are compulsory. Questions are of short answer type. Each Question carries 2 marks (5*2=10Marks).*

*Part B: Questions are of long descriptive type. Each question carries 10 marks. Attempt any three questions. (3*10=30 Marks)*

*Part C: Questions are of very long descriptive type. Each question carries 10 marks. Attempt any four questions. (4*10=40Marks)*

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	What is the significance of study of developmental biology?	2	CO1	BT1	
	1(B)	Explain what is invagination and ingression in gastrulation?	2	CO2	BT2	
	1(C)	What is regeneration and what are factors affecting the process?	2	CO3	BT2	
	1(D)	What do you understand by integrated pest management (IPM)	2	CO6	BT2	
	1(E)	Examine the practices involved in Sericulture.	2	CO5	BT4	
PART-B	Q2	Explain the process of oogenesis with suitable diagrams.	10	CO2	BT2	
	Q3	What are pests? Explain the general morphology and life cycle of pests	10	CO5	BT2	
	Q4	Discuss the structure, classification and	10	CO2	BT3	

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		physiology of various placenta in mammals.				
	Q5	Discuss and explain the primary organizer in development of frog	10	CO3	BT3	
PART-C	Q6	"Fertilization of an egg and sperm involves a lot of physiological and biochemical changes to from the zygote." Justify the above statement.	10	CO2	BT5	
	Q7	Outline the complete embryo development in chick with the help of suitable fate maps.	10	CO3	BT3	
	Q8	Explain in detail the control measures of common insect pests of stored food grains and crops	10	CO5	BT2	
	Q9	Discuss and differentiate the different types and planes of cleavages with the help of fate maps.	10	CO2	BT2	
	Q10	"Animals are beneficial to humans." Justify this statement with suitable examples.	10	CO6	BT5	
********** END **********						

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MANAV RACHNA Vidyaparishad

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DEPARTMENT OF EDUCATION AND HUMANITIES

"End Term Examination, 2023" SET B

SEMESTER	**6**	**DATE OF EXAM**	26.05.2023
SUBJECT NAME	**Money and Banking**	**SUBJECT CODE**	EDH 408-T
BRANCH	**EDUCATION & HUMANITIES**	**SESSION**	II
TIME	01:00 – 04:00PM	**MAX. MARKS**	**80**
PROGRAM	**B.A. B.Ed.**	**CREDITS**	**04**
NAME OF FACULTY	**Ms. Kriti Dagar**	**NAME OF COURSE COORDINATOR**	**Ms. Kriti Dagar**

Note: Part A: All questions are compulsory. Each question will be 2 Marks.
Part B: Attempt any 2 out of 3 each question will be **5** marks.
Part C: Attempt any 3 out of 4 each question will be 10 marks.
Part D: Attempt any 3 out of 4 each question will be 10 marks

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1	Define the four measures of Money Supply.	02	CO1	BT1	
	2	Name the different kinds of Money	02	CO1	BT1	
	3	Rank the following assets from most liquid to least liquid: a. Checking account deposits b. Houses c. Currency d. Washing machines e. Savings deposits f. Wealth	02	CO1	BT2	
	4	For the following list of items, indicate if they are in M1, M2, or neither. a.) your $5,000 line of credit on your Bank of America card b.) $50 worth of traveler's checks you have not used yet c.) $1 in quarters in your pocket d.) $1,200 in your checking account	02	CO2	BT2	

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	5	A bank has deposits of $400. It holds reserves of $50. It has purchased government bonds worth $70. It has made loans of $500. Set up a T-account balance sheet for the bank, with assets and liabilities, and calculate the bank's net worth.	02	CO2	BT2	
PART-B	6	Distinguish between branch banking and unit banking with respect to the advantages of the latter over the former.	05	CO3	BT4	
	7	Trace the evolution of commercial banks in India.	05	CO3	BT4	
	8	Analyze the functions of the central bank	05	CO4	BT4	
PART-C	9	How are banks and credit unions related to each other? Discuss with the help of an example.	10	CO5	BT5	
	10	Construct the cash balance approach to money	10	CO5	BT6	
	11	Would you be willing to completely give up your chequebook and use an electronic means of payment for everything exclusively? Why or why not?	10	CO5	BT5	
	12	"Commercial banks create credit by advancing loans and purchasing securities". Justify the above statement with respect to the process of credit creation	10	CO5	BT6	
PART-D	13	Elaborate on the roles and functions of the Reserve Bank of India.	10	CO5	BT5	
	14	Evaluate the qualitative and quantitative methods of credit control that are used by central banks.	10	CO6	BT6	
	15	Should banks have to hold 100% of their deposits? Why or why not?	10	CO5	BT4	
	16	How does rule-based monetary policy differ from discretionary monetary policy (that is, monetary policy not based on a rule)? What are some of the arguments for each?	10	CO6	BT5	

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MANAV RACHNA UNIVERSITY

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DEPARTMENT OF SCIENCES

"End Term Examination, Jan-June-2023"

SEMESTER	**IV**	**DATE OF EXAM**	26.05.2023
SUBJECT NAME	**Thermodynamics, Equilibrium & Solutions**	**SUBJECT CODE**	**CHH238-T**
BRANCH		**SESSION**	I
DURATION	**3 hrs**	**MAX. MARKS**	**80**
PROGRAM	**B.Sc B.Ed**	**CREDITS**	**3**
NAME OF FACULTY	**Dr. Harsha Devnani**	**NAME OF COURSE COORDINATOR**	**Dr. Harsha Devnani**

***Note**: Part-A: Attempt all questions.*
Part-B: Attempt any three questions.

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	Derive the relation between ΔH and ΔU.	4	CO2	BT3	
	1(B)	Why are the standard enthalpies of neutralization of strong acids by strong bases almost identical?	4	CO2	BT2	
	1(C)	Distinguish between isothermal and adiabatic processes.	4	CO1	BT4	
	1(D)	What is meant by Joule-Thomson effect?	4	CO1	BT1	
	1(E)	Explain Euler's reciprocal relation.	4	CO1	BT1	
PART-B	Q2(A)	Derive the relation between the equilibrium constants K_p, K_c and K_x. Under what conditions $K_p=K_c=K_x$.	10	CO3	BT4	
	2(B)	State and explain Le Chateliers principle. With the help of this principle, work out the conditions which would favor the formation of nitric oxide in the following reaction: N_2 (g) + O_2 (g) ↔ 2NO (g); ΔH=180.75 kJ	10	CO3	BT5	
	Q3(A)	Explain why does a solution of a weak acid and its salt behave as a buffer? Derive the relation between the pH of the solution and the relative amounts of the acid and the salt present in it. Explain why a solution containing a strong acid and its salt does not behave as a buffer?	10	CO4	BT3,4	

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3(B)	Define the terms solubility and solubility product of a substance. Explain giving at least 2 examples the use of the concept of solubility product in qualitative analysis.	10	CO3	BT2	
Q4(A)	State Raoults law for vapour pressure lowering. How is this law derived? Explain how the law can be used for determining molar mass of a dissolved substance.	10	CO4	BT2	
4(B)	a. Calculate pH of a solution prepared by mixing 50 mL of 0.1 M NaOH and 50 mL of 0.2 M CH_3COOH. $K_a = 1.8 \times 10^{-5}$ b. Calculate the pH of 1.0×10^{-3} M solution of HCl.	10	CO3	BT3	
Q5(A)	State the Distribution law. How is the law modified when (i) the solute undergoes association in one of the solvents (ii) the solute enters into chemical combination with one of the solvents.	10	CO4	BT2,3	
5(B)	Discuss in detail the phenomenon of hydrolysis of salts. Illustrate your answer taking example of a mixture of a weak acid and strong base.	10	CO3	BT1	
Q6(A)	Explain the term molal elevation constant. Derive the relation between the boiling point elevation of a solution and the mole fraction of the dissolved solute. How is this expression utilized for determining molar mass of a nonvolatile solute?	10	CO4	BT1,4	
6(B)	Discuss the variation of mutual miscibility of triethylamine-water with variation of temperature.	10	CO4	BT5	

********** END **********

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MANAV RACHNA UNIVERSITY

DEPARTMENT OF SCIENCES

"END TERM EXAM, JAN-JUNE-2023"

SEMESTER	VI	**DATE OF EXAM**	30.05.2023
SUBJECT NAME	COMPLEX ANALYSIS& NUMERICAL ANALYSIS	**SUBJECT CODE**	MAH321B T
BRANCH	B.Sc.(B.Ed.)	**SESSION**	II
DURATION	01:00 – 04:00 PM	**MAX. MARKS**	80
PROGRAM	B.Sc.(B.Ed.)	**CREDITS**	4
NAME OF FACULTY	Dr. Ruchi Gupta	**NAME OF COURSE COORDINATOR**	Dr. Ruchi Gupta

Note: All questions are compulsory.

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART A	Q1	Find the polynomial f(x) by using Lagrange's formula and hence find f(3) for: x: 5, 7, 11, 13, 17 f(x): 150, 392, 1452, 2366, 5202	10	CO3	BT2	
	Q2	Use the Trapezoidal rule to estimate the integral $\int_0^2 e^{x^2}\,dx$ taking the number 10 intervals.	10	CO4	BT3	
PART B	Q3(A)	If u-v=(x-y)(x^2+4xy+y^2) and f(z)=u+iv is an analytic function of z=x+iy, find f(z) in terms of z.	15	CO1	BT3	
	(B)	An electrostatics field in the xy-plane is given by the potential function ø=3x^2y-y^3, find the stream function.	5	CO1	BT3	
	Q4	Consider the transformation $w=e^{\left(\frac{i\pi}{4}\right)z}$ and determine the region in w-plane corresponding to the triangular region bounded by the line x=0,y=0 and x+y=1 in the z-plane.	10	CO1	BT4	
PART C	Q5	Evaluate $\int_0^{1+i}(x^2 - iy)dz$ along the paths: (a) y=x (b) $y=x^2$.	10	CO2	BT3	
	Q6	Verify Cauchy's integral theorem by integrating e^{iz} along the boundary of the triangle with vertices at the points 1+i, -1+i and -1-i.	10	CO2	BT3	
	Q7	Find the series expansion of $f(z)=\frac{z^2-1}{z^2+5z+6}$ about z=0 in the region $\|z\| < 2$.	10	CO2	BT3	

********** END **********

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MANAV RACHNA Vidyaparishad

MANAV RACHNA UNIVERSITY
Declared as State Private University vide Haryana Act 26 of 2014

SCHOOL OF EDUCATION AND HUMANITIES
"End Semester Examination, May -2023"
SET-A

SEMESTER	06	DATE OF EXAM	30.05.2023
SUBJECT NAME	Modern Western Civilization 1789 – 1945 A. D	SUBJECT CODE	EDH 406-T
BRANCH	Education	SESSION	II
TIME	3 Hours	MAX. MARKS	80
PROGRAM	B.A. B.Ed.	CREDITS	4
NAME OF FACULTY	Mr Sharv Datt Anand	NAME OF COURSE COORDINATOR	Mr Sharv Datt Anand

Note: Part A: All questions are compulsory. Questions will be of short answer type (2 Marks each).
Part B: Questions will be of descriptive type. Each question (5 Marks) Attempt ANY SIX
Part C: Questions will be of descriptive type. Each question (10 Marks) Attempt ANY FOUR

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	Why is the Declaration of the Rights of Men and Citizen a landmark event in the History of France and worldwide. Explain its significance.	2	C01	BT2	
	1(B)	Describe the life and work of Karl Marx	2	C02	BT1	
	1(C)	Who were the Carbonaris? Discuss their role in the Italian National Movement.	2	C03	BT2	
	1(D)	In 1830, a revolution broke out in France which affected Belgium and Italian states. Discuss the impact of the revolution.	2	CO3	BT2	
	1(E)	The bombing of Hiroshima and Nagasaki came as a finale to the Second world war. Elaborate	2	CO4	BT3	
PART-B	Q2	Who were the Jacobins and Girondists? Describe their role in the French Revolution.	5	CO1	BT3	
	Q3	Marx's communism is not without critiques. Critically Argue	5	CO2	BT4	

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	Q4	Discuss the outcome of the Franco- Prussian war of 1870.	5	C03	BT2	
	Q5	The year 1848 brought many upheavals in the Italian states following the outbreaks of the revolutions in France and other countries. Argue	5	CO3	BT4	
	Q6	Write short note on **either** (a) Biography of Bismarck (b) outcome of the Austro- Prussian war ,1866	5	C03	BT1	
	Q7	Discuss the immediate cause for the outbreak of the First world war.	5	CO4	BT1	
	Q8	Critically analyse the terms of the Treaty of Versailles	5	CO4	BT4	
PART-C	Q9	Karl Marx revolutionized the modern intelligentsia by his ideas. Critically analyse at least two of his ideas	10	CO2	BT5	
	Q10	Critically discuss the role of Garibaldi in the Italian Struggle for freedom	10	CO3	BT4	
	Q11	Critically analyse the foreign and domestic policies of Bismarck.	10	C03	BT4	
	Q12	The outbreak of the Great war in 1914 necessitated the founding of an international organization for preventing future catastrophes. Elaborate	10	CO4	BT3	
	Q13	Critically evaluate the results of the first world war.	10	CO4	BT5	

********** **END** **********

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MANAV RACHNA Vidyanatariksha

MANAV RACHNA UNIVERSITY

Declared as State Private University vide Haryana Act 26 of 2014

School of Education and Humanities

"End Term Examination, June-2023"

SEMESTER	**VI**	**DATE OF EXAM**	01.06.2023
SUBJECT NAME	**Pedagogy of Physical Sciences -II**	**SUBJECT CODE**	**EDH 128-T**
BRANCH	**Education**	**SESSION**	II
TIME	**3 hours**	**MAX. MARKS**	**80**
PROGRAM	**B.Sc.B.Ed Sem 6**	**CREDITS**	**4**
NAME OF FACULTY	**Dr. Shweta Tewari**	**NAME OF COURSE COORDINATOR**	**Dr. Shweta Tewari**

*Note: **Part A**: All questions are compulsory. Questions will be of short answer type (2 marks each).*

***Part B**: Questions are of descriptive type. Each question carries 5 marks. Attempt any 4*

***Part C**: Each question is descriptive and explanatory carrying 10 marks each. Attempt any 2 questions.*

***Part D** : Each question is explanatory carrying 10 marks each. Attempt any 3 questions.*

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	State any two principles of team teaching?	2	CO1	BT1	
	1(B)	State two merits of integrating ICT in science teaching.	2	CO2	BT4	
	1(C)	Name any two teacher-centered methods of teaching.	2	CO1	BT1	
	1(D)	Formulate objectives of all levels of Bloom's Taxonomy?	2	CO2	BT6	
	1(E)	What is the difference between Piaget's and Vygotsky's ideas of constructivism?	2	CO3	BT4	
	1(F)	Differentiate between formative and summative assessment.	2	CO4	BT4	
	1(G)	What do you understand by heuristic method? How is it different from the project method?	2	CO1	BT2	

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	1(H)	Give an example of project method.	2	CO3	BT3	
	1(I)	How is an idea different from a concept?	2	CO1	BT4	
	1(J)	What do you understand by analogy strategy?	2	CO2	BT2	
	Q2 (A)	How can field trips help in learning?	5	CO3	BT1	
PART-B	Q2(B)	Differentiate between Knowledge and Comprehension in Bloom's Taxonomy.	5	CO1	BT4	
	Q2(C)	What do you understand by Constructivist Science teaching? Give examples.	5	CO2	BT2	
	Q2(D)	Differentiate between a hierarchy map and a spider map with examples.	5	CO1	BT4	
	Q2(E)	Give an example of teaching through inductive method.	5	CO3	BT2	
PART-C	Q3(A)	Which learning or assessment techniques foster inclusion in students? Explain with suitable examples.	10	CO2	BT3	
	Q3(B)	How does science correlate with other school subjects. Explain with the help of a concept map.	10	CO4	BT6	
	Q3(C)	How can a science teacher encourage reflective thinking in students?	10	CO1	BT6	
PART-D	Q4(A)	Explain the nature, purpose and benefits of CCE in assessment.	10	CO4	BT1	
	Q4(B)	Explain the correlation of science with other school subjects.	10	CO3	BT5	
	Q4(C)	Critically analyze the constructivist method of assessment.	10	CO4	BT4	
	Q4(D)	What is experiential learning? Explain the main steps, merits and demerits of experiential learning.	10	CO2	BT1	

********** END **********

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MANAV RACHNA UNIVERSITY

MANAV RACHNA UNIVERSITY
DEPARTMENT OF SCIENCES
"End Term Examination, Jan-June2023"

SEMESTER	**IV**	**DATE OF EXAM**	3.6.2023
SUBJECT NAME	**Multivariate Calculus & Vector Calculus**	**SUBJECT CODE**	**MAH220B**
BRANCH	**B.Sc.B.Ed(Integrated)**	**SESSION**	I
DURATION	09:00 – 12:00 PM	**MAX. MARKS**	**100**
PROGRAM	**B.Sc.B.Ed(Integrated)**	**CREDITS**	**04**
NAME OF FACULTY	**Ms. Seema Aggarwal**	**NAME OF COURSE COORDINATOR**	**Ms. Seema Aggarwal**

Note: All questions are compulsory

	Q.NO.	QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(a)	Evaluate $\int\int xy\,dxdy$ over the positive quadrant of the circle $x^2+y^2=a^2$.	5	CO1	BT2	
	1(b)	Evaluate $\int\int r\sin\theta\,dr\,d\theta$ over the area of the cardioid $r=a(1+\cos\theta)$ above the initial line.	5	CO2	BT2	
PART-B	2(a)	Evaluate the convergence of the improper integral: $\int_{-\infty}^{\infty}\frac{dx}{1+x^2}$	5	CO2	BT2	
	2(b)	Test the improper integral for convergence : $\int_0^{\frac{\pi}{2}}\frac{\cos x\,dx}{\sqrt{1-\sin x}}$	5	CO2	BT3	
PART-C	3(a)	Find the directional derivative of $\phi=5x^2y-5y^2z+\frac{5}{2}z^2x$ at the point $P(1,1,1)$ in the direction of the line $\frac{x-1}{2}=\frac{y-3}{-2}=\frac{z}{1}$.	10	CO3	BT3	
	3(b)	If the vector $\vec{F}=(ax^2y+yz)\hat{\imath}+(xy^2-xz^2)\hat{\jmath}+(2xyz-2x^2y^2)\hat{k}$ is solenoidal ,find the value of a . Find also the curl of this solenoidal vector.	10	CO3	BT3	
	4(a)	Prove that $\nabla^2 f(r)=f''(r)+\frac{2}{r}f'(r)$. Hence evaluate $\nabla^2(\log r)$.	10	CO3	BT3	
	4 (b)	Show that $curl\,(curl\,\vec{V})=grad\,div\,\vec{V}-\nabla^2\vec{V}$ . . Or $\nabla\times(\nabla\times\vec{V})=\nabla(\nabla.\vec{V})-\nabla^2\vec{V}$	10	CO3	BT3	
PART-D	5	Verify Green's theorem in the plane for $\oint_C(xy+y^2)dx+x^2dy$, where C is the closed curve of the region bounded by $y=x$ and $y=x^2$.	20	CO4	BT4	

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6	Verify divergence theorem for $\vec{F} = (x^2 - yz)\hat{\imath} + (y^2 - zx)\hat{\jmath} + (z^2 - xy)\hat{k}$ taken over the rectangular parallelepiped $0 \leq x \leq a, 0 \leq y \leq b, 0 \leq z \leq c$.	20	CO4	BT4	

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	16	Name the species of agrobacterium that cause crown gall disease and hairy root disease. Discuss the difference in plasmids of two species. Explain the detailed structure of Ti Plasmid. What is the significance of agrobacterium in gene transfer?	10	CO3	BT-5	
	17	What is the classification of enzymes? Write in detail about induce fit mechanism of enzyme action.	10	CO1	BT-3	
	18	Comment on types of culture media. How do we prepare a culture media	10	CO2	BT-2	
	19	State the classification of carbohydrates. Write a detailed note on synthesis or breakdown of sucrose	10	CO1	BT-2	
		********** **END** **********				

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DEPARTMENT OF SCIENCES
"End Term Examination, Jan-June-2023"

SEMESTER	**8th**	**DATE OF EXAM**	20.05.2023
SUBJECT NAME	**Nuclear and Solid State Physics**	**SUBJECT CODE**	**PHH433-T**
BRANCH	B.SC - B.Ed (Education)	**SESSION**	I
DURATION	**3 hrs.**	**MAX. MARKS**	**80**
PROGRAM	**B. Sc. B. Ed.**	**CREDITS**	**3**
NAME OF FACULTY	**Dr. D. K. Sharma**	**NAME OF COURSE COORDINATOR**	**Dr. D. K. Sharma**

Note: All questions are compulsory

[SET B]

	Q.NO.	QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL
PART-A	1(A)	Draw the following planes in Simple cubic lattice: (001), (201), (111) and (326).	4	CO3	BT5
	1(B)	Obtain the Miller indices of a plane, which intercept at *a, b/2, -3c* in a simple cubic unit cell.	4	CO3	BT3
	1(C)	For SC lattice, calculate $d_{100}:d_{110}:d_{111}$.	4	CO3	BT3
	1(D)	Explain the classification of metals, semiconductors and insulators based on band theory.	4	CO4	BT1
	1(E)	Explain the Type-I and Type-II superconductors.	4	CO4	BT4
PART-B	Q2(A)	Define the mass defect and binding energy of a nucleus. Derive binding energy equation.	10	CO1	BT1
	2(B)	Prove that the mean life Time ($\bar{T}$) of a radioactive atom is equal to the reciprocal of its disintegration constant.	10	CO2	BT2, BT3
PART-C	Q3	What do you mean by inter-planar distance? Show that in a cubic lattice the distance between successive planes of indices (*hkl*) is given by $d_{hkl} = \frac{a}{\sqrt{(h^2+k^2+l^2)}}$	5, 15	CO3	BT1, BT4
PART-D	Q4	Show that the Hall coefficient is independent of the applied magnetic field and is inversely proportional to current density and electronic charge.	20	CO4	BT5

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DEPARTMENT OF SCIENCES

"End Term Examination, Jan-June-2023"

SEMESTER	**VIII**	**DATE OF EXAM**	23.05.2023
SUBJECT NAME	**Linear Algebra**	**SUBJECT CODE**	**MAH401B**
BRANCH	**MATHEMATICS**	**SESSION**	**I**
DURATION	**3 hrs**	**MAX. MARKS**	**100**
PROGRAM	**B.Sc. B.Ed.**	**CREDITS**	**4**
NAME OF FACULTY	**Dr. Kamlesh Kumar**	**NAME OF COURSE COORDINATOR**	**Dr. Kamlesh Kumar**

Note: All questions are compulsory.

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	Show that the set $\{x^2+3x-2,\ 2x^2+5x-3, -x^2-4x+4\}$ is a basis of vector space $\mathcal{P}_2(\mathbb{R})$.	5	CO1	BT2	
	1(B)	Determine whether the following sets are subspace of $\mathbb{R}^3(\mathbb{R})$. Justify your answers. $W_1 = \{(x,y,z): 2x-7y+z=0\}$ $W_2 = \{(x,y,z): x = z+2\}$	5	CO1	BT2	
PART-B	2(A)	Show that the mapping $T: \mathbb{R}^3 \to \mathbb{R}^3$ defined by $T(x,y,z) = (2x,\ x-y,\ x+2y+z)$ is a linear transformation.	5	CO2	BT3	
	2(B)	Let $T: M_{2\times3}(\mathbb{R}) \to M_{2\times2}(\mathbb{R})$ be the linear transformation defined by $T\begin{pmatrix} a & b & c \\ u & v & w \end{pmatrix} = \begin{pmatrix} 2a-b & c+2b \\ 0 & 0 \end{pmatrix}$. Verify the rank nullity theorem.	5	CO2	BT3	
PART-C	3(A)	Determine all solutions of the following system of equations in $\mathbb{R}$ $x_1 - 4x_2 - x_3 + x_4 = 3$	10	CO3	BT3	

		$2x_1 - 8x_2 + x_3 - 4x_4 = 9$ $-x_1 + 4x_2 - 2x_3 + 5x_4 = -6$				
	3(B)	Check whether the following matrix over the field of real number $\mathbb{R}$ is diagonalizable or not by finding the basis of eigen vectors. $\begin{pmatrix} 5 & -6 & -6 \\ -1 & 4 & 2 \\ 3 & -6 & -4 \end{pmatrix}$	15	CO3	BT3	
	3(C)	Let $A = \begin{pmatrix} -9 & 4 & 4 \\ -8 & 3 & 4 \\ -16 & 8 & 7 \end{pmatrix}$ be a matrix of order 3×3 over $\mathbb{R}$. Find the characteristic polynomial of A. Check whether the matrix A is diagonalizable or not with the concept of algebraic multiplicity and geometric multiplicity of eigen values.	15	CO3	BT4	
PART-D	4(A)	Show that the map $\langle , \rangle : \mathbb{C}^3 \times \mathbb{C}^3 \to \mathbb{C}$ defined as $\langle (z_1, z_2, z_3), (w_1, w_2, w_3) \rangle = z_1\overline{w_1} + z_2\overline{w_2} + z_3\overline{w_3}$ is an inner product space in $\mathbb{C}^3$.	15	CO4	BT3	
	4(B)	Find the orthogonal basis using the Gram-Schmidt process to given subset $S = \{(2,-1,-2,4), (-2,1,-5,5), (-1,3,7,11)\}$ of the standard inner product space $\mathbb{R}^4$.	15	CO4	BT3	
	4(C)	Prove that $16 \leq (a+b+c+d)\left(\frac{1}{a}+\frac{1}{b}+\frac{1}{c}+\frac{1}{d}\right)$ for all positive numbers a, b, c and d.	10	CO4	BT4	

********** END **********

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School of Education and Humanities

"End Term Examination, June-2023"

SEMESTER	VIII	DATE OF EXAM	23.05.2023
SUBJECT NAME	ZOOLOGY-Molecular Biology and Immunology	SUBJECT CODE	EDH402 – T
BRANCH	Education	SESSION	I
TIME	3hrs.	MAX. MARKS	80
PROGRAM	Integrated B.Sc.B. Ed	CREDITS	3
NAME OF FACULTY	Ms. Eram Aziz	NAME OF COURSE COORDINATOR	Ms. Eram Aziz

*Note: Part A: All questions are compulsory. Questions are of short answer type. Each Question carries 2 marks (5*2=10Marks).*

*Part B: Questions are of long descriptive type. Each question carries 10 marks. Attempt any three questions. (3*10=30 Marks)*

*Part C: Questions are of very long descriptive type. Each question carries 10 marks. Attempt any four questions. (4*10=40Marks)*

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	Explain DNA double helical structure given by Watson and Crick.	2	CO1	BT2	
	1(B)	Differentiate between cell mediated and humoral immunity	2	CO3	BT4	
	1(C)	What is the role of DNA polymerase III in Replication	2	CO2	BT2	
	1(D)	Explain in brief the cells of an immune system	2	CO3	BT2	
	1(E)	Explain the concept of third generation vaccines. Give one example	2	CO5	BT4	
PART-B	Q2	Explain the various factors that influence immunogenicity	10	CO4	BT2	
	Q3	"Immunoglobulins have a particular structure to perform its functions effectively". Justify the given statement.	10	CO3	BT4	

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	Q4	Describe the process of Rolling Circle Replication in plasmids	10	CO2	BT2	
	Q5	Write a short note explaining Major Histocompatibility Complex in relation to immune system	10	CO3	BT3	
PART-C	Q6	With the help of a diagram explain how prokaryotes are able to regulate gene expression citing example of lac operon.	10	CO2	BT4	
	Q7	Discuss in detail the antigen antibody reaction. Explain any two antigen-antibody reaction types.	10	CO4	BT3	
	Q8	Illustrate with the help of a suitable example the role of vaccines in developing immunity against diseases	10	CO5	BT4	
	Q9	Discuss the process of how mRNA is able to synthesize protein in eukaryotic cells	10	CO2	BT3	
	Q10	Draw and discuss with the help of suitable diagrams the complete process of DNA replication in eukaryotes	10	CO2	BT4	
********** END **********						

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DEPARTMENT OF EDUCATION AND HUMANITIES

"End Term Examination, 2023" SET B

SEMESTER	**8**	**DATE OF EXAM**	23.05.2023
SUBJECT NAME	**Statistics**	**SUBJECT CODE**	**EDH420-T**
BRANCH	**EDUCATION & HUMANITIES**	**SESSION**	I
TIME	09:00 – 12:00PM	**MAX. MARKS**	**80**
PROGRAM	**B.A. B.Ed.**	**CREDITS**	**04**
NAME OF FACULTY	**Ms. Kriti Dagar**	**NAME OF COURSE COORDINATOR**	**Ms. Kriti Dagar**

Note: Part A: All questions are compulsory. Each question will be 2 Marks.
Part B: Attempt any 2 out of 3 each question will be **5** marks.
Part C: Attempt any 3 out of 4 each question will be 10 marks.
Part D: Attempt any 3 out of 4 each question will be 10 marks

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1	Define Correlation.	02	CO1	BT1	
	2	Classify the nature of the following (positive, negative or no correlation) (i) Sale of woolen garments and day temperature (ii) Color of the saree and intelligence of the lady wearing it (iii) Amount of rainfall and crop yield (iv) Family income and expenditure on luxury items	02	CO1	BT2	
	3	Describe the method of "Simple Random Sampling"	02	CO1	BT2	
	4	State two limitations of Sampling.	02	CO2	BT1	
	5	Differentiate between classification and tabulation of data	02	CO2	BT2	

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PART-B	6	The regression equations of a bi-variate distribution are: Regression equation of y on x is $4y = 9x+15$ Regression equation of x on y is $25x = 6y+7$, Find $\bar{x}$, $\bar{y}$, and Y.	05	CO3	BT4	
	7	The frequency distribution of marks obtained in Mathematics (M) and English (E) are as follows: Mid-value of marks / No. of students (M) / No. of students (E) 5 / 10 / 1 15 / 12 / 2 25 / 13 / 26 35 / 14 / 50 45 / 22 / 59 55 / 27 / 40 65 / 20 / 10 75 / 12 / 8 85 / 11 / 3 Analyze the data by drawing a Lorenz curve for both subjects on the same graph and describe the main features observed.	05	CO3	BT4	
	8	In a sample study about food habits of a town, the data was obtained: 50 % persons were males 30 % were non-vegetarians 18 % male non-vegetarians Tabulate the above data. Also use graphs to express the data	05 (3+2)	CO4	BT4	
PART-C	9	Consider the following distributions: Distribution A / Distribution B Mean: 100 / 90 Median: 90 / 80 Standard Deviation: 10 / 10 i)Distribution A has the same degree of variation as distribution B? Find using the coefficient of variation ii)Both distributions have the same degree of skewness. True/False? Comment, giving reasons.	10	CO5	BT5	
	10	Distinguish between random sampling and stratified sampling. Suppose it is desired to survey the petrol buying habits of car owners in a particular city. How would you proceed about it? Draw a brief questionnaire for the purpose.	10	CO5	BT6	

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	11	(i)Formulate the empirical relationship between mean, median, and mode in a symmetrical distribution. How does it help to measure mode and to measure skewness? (ii) If the mean is 50 and mode is 58, calculate the median. What can you say about the shape of the distribution? Explain why.	10 (5+5)	CO5	BT5	
	12	Find the interquartile range from the following data: Class Interval: 0-15, 15-30, 30-45, 45-60, 60-75, 75-90, 90-105 f: 8, 26, 30, 45, 20, 17, 4	10	CO5	BT6	
PART-D	13	1.State the properties of the sampling distribution of the mean. 2.The mean strength of a certain cutting tool is 41.5 hrs with a standard deviation of 2.5 hrs. what is the "standard error of mean" , given that n =50	10	CO5	BT5	
	14	Calculate the coefficient of correlation for the following data of sales (x) and expenses (y) in lakhs of rupees of 10 firms: x: 46, 33, 41, 38, 36, 45, 34, 37, 50, 40 y: 12, 13, 24, 16, 15, 14, 21, 17, 19, 19	10	CO6	BT6	
	15	Scores of an aptitude test given by 100 candidates are given below. You are required to calculate Karl Pearson's coefficient of skewness: Marks: 0-10, 10-20, 20-30 No. of Candidates: 10, 15, 24	10	CO5	BT4	

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		30-40 | 25 40-50 | 10 50-60 | 10 60-70 | 6				
	16	Find the regression equation of y on x where y and x are marks obtained by 10 students as given below: Marks (X) | Marks (Y) 20 | 20 45 | 60 65 | 55 40 | 45 55 | 75 35 | 35 15 | 25 80 | 90 25 | 10 50 | 50	10	CO6	BT5	

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School OF EDUCATION AND HUMANITIES

"End Term Examination, 2023"

SEMESTER	8	DATE OF EXAM	23.05.2023
SUBJECT NAME	Social Constructionists and Their Thoughts	SUBJECT CODE	EDH 421-T
BRANCH	Education	SESSION	I
TIME	3 Hours	MAX. MARKS	80
PROGRAM	B.A.B.Ed	CREDITS	4
NAME OF FACULTY	R K SANAYAIMA	NAME OF COURSE COORDINATOR	R K SANAYAIMA

Note: PART A: Attempt all the questions in Part A (Each question carry 5 marks).
PART B: Attempt any 5 questions out of the 6 questions (Each question carry 10 marks)

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	What is your key understanding of social contract theory? Name any 2 philosophers/theorists who have contributed to the social contract theories?	5	CO1	BT 2	
	1(B)	What is the condition of the human being in the pre-political/ pre-social as according to Locke?	5	CO1	BT 1	
	1(C)	According to Bentham, pleasure or pain could be arithmetically calculated by taking into account seven factors. Explain any 5 factors from the given below? i. Intensity ii. Duration iii. Certainty iv. Propinquity v. Purity vi. Fecundity vii. Extensiveness	5	CO2	BT 4	
	1(D)	*Machiavelli's "The prince" is in the form of advice given to a ruler on statecraft.* **Explain any 4 significant aspects of the advice to the ruler by Machiavelli** *?*	5	CO3	BT2	
	1(E)	Explain Plato's arguments on the abolition of Private property, individuals' families, and all children raised by the state ?	5	CO5	BT4	
	1(f)	Examine J S Mill's Liberal thought?	5	CO6	BT4	

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PART-B	Q2	Identify and explain the three classes as classify by Plato?	10	CO5	BT 2	
	Q3	Discuss Lenin's Socialist thought?	10	CO6	BT 5	
	Q4	*Historical materialism sounds complicated and abstract, but it's really a rather fancy way of saying that a society's economic organization fundamentally determines its social institutions.* In light of the given statement, Explain **Historical Materialism** ?	10	CO6	BT 4	
	Q5	In the *Communist Manifesto,* Marx- Engels said: *"The history of all hitherto existing society is the history of class struggles*". Critically discuss the **Theory of class war** ?	10	CO6	BT2	
	Q6	Critically illustrate Karl Marx's theory of Revolution?	10	CO6	BT3	
	Q7	*The **separation of church and state** is a philosophical and jurisprudential concept for defining political distance in the relationship between religious organizations and the state.* Debate the idea of **separation of church and state**	10	C05	BT3	
		********** **END** **********				

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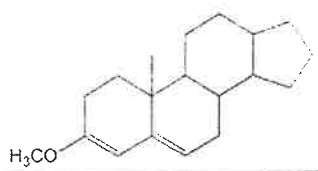
MANAV RACHNA UNIVERSITY
DEPARTMENT OF SCIENCES

"End Term Examination, June-2023"

SEMESTER	**VIII**	**DATE OF EXAM**	25.05.2023
SUBJECT NAME	**Spectroscopy, Natural Products and Heterocycles**	**SUBJECT CODE**	**CHH315**
BRANCH	**Education**	**SESSION**	**I**
DURATION	**3 h**	**MAX. MARKS**	**80**
PROGRAM	**BSc Bed**	**CREDITS**	**3**
NAME OF FACULTY	**Dr. Shilpa Sharma**	**NAME OF COURSE COORDINATOR**	**Dr. Shilpa Sharma** Approved

Note: Part-A: All questions are compulsory
Part-B: All questions are compulsory

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	Explain the mechanism of free radical Polymerization taking ethene as an example.	4	CO3, CO2	BT1	
	1(B)	Define Vulcanization of rubber. Also, give an example of natural rubber	3	CO2	BT2	
	1(C)	Write a short note on Biodegradable polymer	3	CO4	BT2	
PART-B	2(A)	Write the Haworth and cyclic structure of Idose.	3	CO3	BT3	
	2(B)	Explain in detail the antibiotic drug and its mechanism of action	3	CO4	BT3	
	2(A)	Write a short note on antiprotozoal drugs.	4	CO4	BT3	
PART-C	3(A)	What structural features may produce bathochromic or hypsochromic effect in an organic compound?	5	CO3	BT2	
	3(B)	Calculate the λmax for UV spectroscopy 	6	CO3	BT3	

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	3(C)	How will you note the progress of the oxidation of 2-Propanol to Propanone in Infra-red spectroscopy?	6	CO3	BT3	
	3(D)	Calculate the chemical shift in ppm for a proton that has resonance at 126Hz downfield from TMS on spectrophotometer that operates at 60MHz.	3	CO3	BT3	
	3(E)	Discuss the principle involved in UV and FTIR spectroscopy	5	CO3	BT2	
	3(E)	Why TMS is used as a reference standard in NMR spectroscopy?	5	CO3	BT2	
	4(A)	Why are amino acids are called amphoteric compounds? Write the structure of alanine at pH 2 and pH 10.	7	CO4	BT2	
PART-D	4(B)	Explain different type of proteins on the basis of structures	5	CO4	BT1	
	4(C)	Discuss the types of dye on the basis of application. Define dyeing and the chemistry associated in it.	7	CO4	BT2	
	4(D)	Discuss the electronic concept of Colour and constitution in dyes.	8	CO4	BT3	
	4(E)	Define and Explain Protein denaturation	3	CO4	BT2	

[]******** END **********

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SCHOOL OF EDUCATION AND HUMANITIES

"T3 Examination, May-2023"

SEMESTER	**VIII**	**DATE OF EXAM**	25 -05-2023
SUBJECT NAME	**GENDER AND LITERATURE**	**SUBJECT CODE**	**EDH419 -T**
BRANCH	**B A B ED**	**SESSION**	I
TIME	**3 HOURS**	**MAX. MARKS**	**80**
PROGRAM	**B A B ED**	**CREDITS**	**3**
NAME OF FACULTY	**DR CHHAVI KULSHRESHTHA**	**NAME OF COURSE COORDINATOR**	**DR CHHAVI KULSHRESHTHA**

***Note**: Part A: All questions are compulsory.*
Part B: All questions are compulsory.
Part C: Attempt any two questions.

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(A)	Justify the title of Kanchana Sita.	5	CO2	L2	
	1(B)	According to Alice Walker, what has the black woman inherited?	5	CO3	L2	
	1(C)	When Alice Walker uses Virginia Woolf's famous quote from A Room of One's Own, how does she change it?	5	CO5	L2	
	1(D)	Considerably deviating from the Ramayana which gives little significance to Urmila, Kanchana Sita places her on a high pedestal as the advocacy of the silenced and marginalized fair sex. Elucidate.	5	CO1	L4	
PART-B	Q2	In Toward a Feminist Poetics Showalter divides feminist criticism into two sections. Extensively discuss both the sections as mentioned in her essay.	10	CO2	L4	
	Q3	Suniti Namjoshi's 'A Room of His Own' is a protest against the extreme	10	CO2	L4	

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		slavish domestication of women through the institution of marriage. Discuss.				
PART-C	Q4	Propose an alternative ending to the play 'Kanchana Sita.'	20	CO4	L6	
	Q5	Analyse the essay 'Professions for Women' by Virginia Woolf.	20	CO4	L4	
	Q6	Summarize the essay 'In Search of her Mother's Garden.'	20	CO1	L4	
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DEPARTMENT OF EDUCATION AND HUMANITIES

"End Term Examination, May 2023"

SEMESTER	**VIII**	**DATE OF EXAM**	31/5/2023
SUBJECT NAME	Guidance and Counselling	**SUBJECT CODE**	**EDS 221**
BRANCH	**EDUCATION & HUMANITIES**	**SESSION**	I
TIME	9:00 – 10:30 AM	**MAX. MARKS**	**50**
PROGRAM	**B.A. B.Ed./ BSc.B.Ed**	**CREDITS**	**04**
NAME OF FACULTY	**Dr Arvinder Kaur**	**NAME OF COURSE COORDINATOR**	**Dr Arvinder Kaur**

Note: Part A: Attempt any 4 questions. Each question will be 5 Marks.
Part B: Attempt any 3 out of 4 each question will be 10 marks.

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	1(a)	"Counseling is a collaborative effort between the counselor and client" Justify with the help of relevant example	05	CO1	BT5	
	1(b)	Define term behavioral problem. Discuss various types' behavior problems in Children.	05	C04	BT2	
	1(c)	Analyze the importance of active listening in counselling.	05	CO3	BT4	
	1(d)	Briefly explain the different physical provision provided in the school.	05	CO5	BT2	
	1 (e)	Differentiate between Directive and Non-Directive Counselling	05	CO2	BT4	
PART-B	2	Explain concept, principles and objectives of educational guidance.	10	CO2	BT2	
	3	Describe the essentials of the teacher as a Counsellor. In your view point which quality must be there in teacher as a Counsellor	10	CO4	BT2+ BT3	
	4	Elaborate the 'Humanistic Approach' of counselling. Discuss how does it help the counselee?	10	CO3	BT 3	
	5	What is Career Guidance? Discuss the steps and dissemination of career information	10	CO4	BT1+BT2	

*******End*******

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DEPARTMENT OF EDUCATION AND HUMANITIES

"END TERM EXAMINATION (JAN MAY2023)"

SEMESTER	**/ VIII**	**DATE OF EXAM**	31.05.2023
SUBJECT NAME	**School Leadership and Management**	**SUBJECT CODE**	**EDS 236**
BRANCH	**Education and Humanities**	**SESSION**	**I**
TIME		**MAX. MARKS**	**50**
PROGRAM	**B.Ed/ B.Sc.B.Ed/B.A.B.Ed**	**CREDITS**	**2**
NAME OF FACULTY	**Ms Ridhi Khanna**	**NAME OF COURSE COORDINATOR**	**Ms Ridhi Khanna**

Note: Attempt all questions from PART A,B,C and D

Q.NO.		QUESTIONS	MARKS	CO ADDRESSED	BLOOM'S LEVEL	PI
PART-A	Q1	Comment on "Management is working with objectives and Leadership is working with goals and vision." Distinguish between management and leadership.	5	CO1	BT3	
	Q2	Elaborate on Leadership and Management theory	5	CO1	BT2	
PART-B	Q3	" Can women lead" Illuminate your answer with examples. Distinguish between Transformational and transactional leadership	2+3	CO2, CO3	BT4	
	Q4	Elucidate Golesman 's 6 leadership styles?	5	CO4	BT2	
PART-C	Q5	What is a performance appraisal? Explain different incentives and compensation management	5	CO4	BT3	
	Q6	Explain the selection process in HRM	5	CO5	BT2	
PART-D	Q7	"Stress steals the beauty from life". Reflect on statement and list out strategies to manage stress.	3+7	CO6	BT5	
	Q8	Define conflicts and three levels of conflict resolution. List out strategies to resolve conflicts.	3+7	CO4, CO6	BT4	

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