BLUEPRINT FOR MODEL QUESTION PAPER-3

SUBJECT:MATHEMAMATICS(35)

CLASS : IIPUC :2024-2025

SL. NO	CHAPTER/ DOMAIN	NO of T. Hrs	MARKS	REMEMBER						UNDERSTAND						APPLY							CREATE/EVALUATE							TOTAL
				PART-A		PART-B	PART-C	PART-D	PART-E	PART-A		PART-B	PART-C	PART-D	PART-E	PART-A		PART-B	PART-C	PART-D	PART-E		PART-A		PART-B	PART-C	PART-D	PART-E		
				1 MARK MCQ	1 MARK FB	2 MARK SA	3 MARK SA	5 MARK LA	4 MARK LA	1 MARK MCQ	1 MARK FB	2 MARK SA	3 MARK SA	5 MARK LA	4 MARK LA	1 MARK MCQ	1 MARK FB	2 MARK SA	3 MARK SA	5 MARK LA	6 MARK LA	4 MARK LA	1 MARK MCQ	1 MARK FB	2 MARK SA	3 MARK SA	5 MARK LA	6 MARK LA	4 MARK LA	
1	RELATIONS AND FUNCTIONS	9	9										1	1									1							9
2	INVERSE TRIGONOMETRIC FUNCTIONS	6	6	1						1		1						1												6
3	MATRICES	9	9	1	1			1				1																		9
4	DETERMINANTS	12	12	1				1	1			1																		12
5	CONTINUITY ANDDIFFERENTIABILITY	20	17	1						1		1	1		1		1			1										17
6	APLLICATION OFDERIVATIVES	10	8	1						1	1		1					1												8
7	INTEGRALS	22	18					1			1	1							1		1		1								18
8	APPICATION OFINTEGRATIO	5	5											1																5
9	DIFFERENTIAL EQUATIONS	10	8	1				1										1												8
10	VECTORALGEBRA	11	8	1						1			1						1												8
11	THREEDIMENSIONAL GEOMETRY	8	6			1							1										1							6
12	LINEARPROGRAMMING	7	6																								1			6
13	PROBABILITY	11	8							1	1		1													1				8
TOTAL		140	120	7	1	1	0	4	1	5	3	5	6	2	1	0	1	3	2	1	1	0	3	0	0	0	1	0	1	120

DESIGN OF THE QUESTION PAPER

SECOND PUC: MATHEMATICS(35): 2024-25

Pattern of the Question Paper:

Part	Type of questions	Number of questions to be set	Number of questions to be answered	TOTAL MARKS	Remarks
A	1 mark Questions	15+5=20	15+5=20	20(20)	Compulsory part(MCQ+FB)
B	2 marks Questions	9	6	9× 2=18 (6× 2=12)	
C	3marks Questions	9	6	9× 3=27 (6× 3=18)	
D	5marks Questions	7	4	7× 5=35 (4× 5=20)	Questions must be asked from 7 specific topics
E	6 and 4 marks Questions (Both Internal choice)	2+2	1+1	6× 2=12 (6× 1=6) 4× 2=8 (4× 1=4)	Questions must be asked from 4 specific topics

The weightage marks distribution across different dimensions shall be as follows:

A. Weightage to Objectives.

Objective	**Weightage**	**Marks**
Remember	40%	36/120
Understand	30%	48/120
Apply	20%	24/120
Analyse/Create/Evaluate	10%	12/120

B.Weightage/marks across difficulty level:

Level	Weightage	Marks
Easy	40%	48/120
Average	40%	48/120
Difficult	20%	24/120

C: Weightage Framework:

Chapter No.	Chapter	No. of teaching Hours	Marks
1	RELATIONS AND FUNCTIONS	9	9
2	INVERSE TRIGONOMETRIC FUNCTIONS	6	6
3	MATRICES	9	9
4	DETERMINANTS	12	12
5	CONTINUITY AND DIFFERENTIABILITY	20	17
6	APPLICATION OF DERIVATIVES	10	8
7	INTEGRALS	22	18
8	APPLICATION OF INTEGRALS	5	5
9	DIFFERENTIAL EQUATIONS	10	8
10	VECTORS	11	8
11	THREE D GEOMETRY	8	6
12	LINEAR PROGRAMMING	7	6
13	PROBABILITY	11	8
TOTAL		140	120

Quality & Length of the Question Paper

1.While framing a question, the time required to solve it should be decided properly and the marks should be awarded accordingly.

2.Marks allotted for each question should be properly mentioned in the question paper.

General Instructions:

1.Question paper should be prepared by preparing separate blueprint by keeping the weightage of marks allotted to each chapter in mind.

2. Weightage allotted to each topic cannot be changed but the question setter has the liberty to choose the question type as per instructions given.

4. Miscellaneous worked examples and exercise problems can also be included in the Question paper.

5. Question order in the question paper need not to be in accordance with the chapters in the textbook.

6. The problems that are based on the concepts discussed in the book [prescribed by the Department of School Education (Pre-university)] can be asked. However, this does not mean that problems should be given as they appear in the textbook.

7.No question should be asked from the historical notes and appendices given in the textbook.

8.Questions should not be split into subdivisions.

9.Questions should be clear, unambiguous, understandable and all unwanted data in the questions should be avoided.

10.Instructions to use graph sheet in linear programming problem should be given in the question paper.

11.Repetition of the same concepts, laws, facts etc. which generate the same concept in different parts of the question paper should be avoided.

12. In MCQ section, stimulus questions, comprehensive, identifying the true or false statements should be asked but then should not exceed three questions.

13. Six numerical options should be given for the five Fill in the blanks questions.

14.Questions for Part D should be given from the following 7 specific topics only.

i).RELATIONS AND FUNCTIONS
ii).MATRICES
iii).DETERMINANTS
iv).CONTINUITY AND DIFFERENTIABILITY
v).INTEGRALS
vi).APPLICATION OF INTEGRALS
vii).DIFFERENTIAL EQUATIONS

15.Questions for Part E should be given from the following 4 specific topics only.

(Both Six marks and Four marks questions should have internal choice.)

i).INTEGRALS
ii).LINEAR PROGRAMMING
iii).CONTINUITY AND DIFFERENTIABILITY
iv).DETERMINANTS

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