

II PUC PHYSICS (33) BLUEPRINT FOR MODEL QUESTION PAPER-3 2024-25

QP Part	Question type	Number of questions to be set	Marks allotted	Number of questions to be answered	Marks allotted
A	Multiple Choice Question (MCQ)	15	15	15	15
	Fill In the Blank (FIB)	05	05	05	05
B	Short Answer – SA (2 Marks)	08	16	05	10
C	Short Answer – SA (3 Marks)	08	24	05	15
D	Long Answer – LA (5 Marks)	05	25	03	15
	Numerical Problem – NP (5 Marks)	04	20	02	10
TOTAL		45	105	35	70

Unit	Ch. No	Content domain/ Unit/ Theme Chapters	Number of teaching hours	Marks	Remember (37 marks = 35%)				Understand (32 marks= 31%)				Apply (18 marks= 17%)			HOTS (18 marks = 17%)	
					MCQ	FIB	SA	SA	SA	NP	SA	LA	NP	LA	NP	MCQ	NP
					1 mark	1 mark	2 marks	3 marks	2 marks	2 marks	3 marks	5 marks	3 marks	5 marks	5 marks	1 mark	5 marks
I	1	Electric charges and Fields	12	10	1	1					1			1			
II	2	Electrostatic potential and Capacitance	12	10	1			1							1	1	
III	3	Current electricity	15	13			1					1				1	1
IV	4	Moving Charges and Magnetism	13	11				1	1			1				1	
V	5	Magnetism and Matter	6	6	1		1	1									
	6	Electromagnetic Induction	8	7	1	1				1	1						
VI	7	Alternating Current	8	7	1	1											1
	8	Electromagnetic Waves	3	3	1		1										
VII	9	Ray Optics and Optical Instruments	11	10	1	1							1	1			
VIII	10	Wave Optics	8	7	1	1	1				1						
IX	11	Dual nature of Radiation and Matter	6	6	1												1
	12	Atoms	4	3	1				1								
X	13	Nuclei	5	4	1			1									
	14	Semiconductor Electronics	9	8	1				1			1(ST)					
Total			120	105	12	5	8	12	6	2	9	15	3	10	5	3	15

MARK PER TEACHING HOUR = 105/120 = 0.875

ST ==> SPLIT TYPE QUESTION (1+2+2) OR (2+3) OR (1+4) OR (1+1+3)

Weightage to objectives:

Objectives	Weightage	Marks
Remember	35%	37
Understand	31%	32
Apply	17%	18
HOTS	17%	18

Weightage to level of difficulty:

Level	Weightage	Marks
Easy	40%	42
Average	40%	42
Difficult	20%	21

GENERAL GUIDELINES FOR SETTING THE QUESTION PAPER

1. Weightage of marks for every chapter should be calculated by multiplying number of teaching hours with 0.875. The total marks should not exceed 105.
2. The question paper should be prepared on the basis of blueprint following the weightage of marks for each chapter. The questions should be framed to check the specific cognitive level as mentioned in the blueprint.
3. Questions should be clear, unambiguous, understandable and free from grammatical errors.
4. Questions which are based on the same concept, law, fact etc. and which generate the same answer should not be repeated under different forms (MCQ, FIB, VSA, LA and NP).
5. The answers for the questions should be available in the prescribed text book or can be derived from the concepts of text book prescribed for that academic year for remember/understand/apply/HOTS questions.
6. In PART – A (I main), MCQ should not involve mathematical calculations. Only 3 MCQs should be from HOTS.
7. In PART – B and C, (III and IV main) only one numerical problem should be asked in each part. They should not be asked from the chapter from which 5 marks numerical problem is set.
8. In PART – D (V main) maximum of two split questions should be asked.
9. When a question carrying 3 or 5 marks is split, the sub questions should be derived from the same concept or different concepts of the same chapter.
10. In PART – D (VI main), only one 5 marks numerical problem should be set from chapters corresponding to a pair of consecutive units like I & II, III & IV, V & VI, VII & VIII, IX & X. Three numerical problems should be from HOTS.
