

## II PUC

## PHYSICS(33)

## BLUEPRINT FOR THE MODEL QUESTION PAPER - 2023-24

QP Part	Question type	Number of questions to be set	Marks allotted	Number of questions to be answered	Marks allotted
<b>A</b>	MCQ	15	15	15	15
	Fill in the blank(FIB)	05	05	05	05
<b>B</b>	SA ( 2 Marks)	09	18	05	10
<b>C</b>	SA ( 3 Marks)	09	27	05	15
<b>D</b>	LA ( 5 Marks)	06	30	03	15
	Numerical Problem(NP) ( 5 Marks)	04	20	02	10
<b>Total</b>		<b>48</b>	<b>115</b>	<b>30</b>	<b>70</b>

Unit	Sr. No	Chapter/ Content domain/ Unit/ Theme	No. of periods	Marks	Remember(41 marks)					Understand(33 marks)				Apply(23 marks)				HOTS(18 marks)		
					MCQ 1 mark	FIB 1 Mark	SA 2 Marks	SA 3 Marks	LA	SA 2 Marks	NP 2 Marks	SA 3 Marks	LA 5 mark	SA 2 Marks	NP 3 Marks	LA 5 mark	NP 5 mark	MCQ 1 mark	SA	NP 5 mark
I	1	Electric charges & Fields	12	11	1		1					1								1
II	2	Electrostatic potential and Capacitance	12	11				1			1					1		1		
III	3	Current electricity	15	14	1			1								1				1
IV	4	Moving Charges and Magnetism	13	12	1	1	1					1				1				
V	5	Magnetism and Matter	6	6				1		1								1		
	6	Electromagnetic Induction	8	8	2	1	1					1								
VI	7	Alternating Current	8	8	1					1							1			
	8	Electromagnetic Waves	3	3	1		1													
VII	9	Ray Optics and Optical Instruments	11	11	1		1	1												1
VIII	10	Wave Optics	8	7	1	1							1(ST)							
IX	11	Dual nature of Radiation and Matter	6	6									1(ST)					1		
	12	Atoms	4	4	1							1								
X	13	Nuclei	5	5	1	1									1					
	14	Semiconductor Electronics	9	9	1	1	1						1							
<b>Total</b>			<b>120</b>	<b>115</b>	<b>12</b>	<b>5</b>	<b>12</b>	<b>12</b>	<b>-</b>	<b>4</b>	<b>2</b>	<b>12</b>	<b>15</b>	<b>-</b>	<b>3</b>	<b>15</b>	<b>5</b>	<b>3</b>	<b>-</b>	<b>15</b>

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

## Weightage to objectives:

<b>Objectives</b>	<b>Weightage</b>	<b>Marks</b>
Knowledge	<b>35%</b>	<b>41</b>
Understanding	<b>29%</b>	<b>33</b>
Application	<b>20%</b>	<b>23</b>
HOTS	<b>16%</b>	<b>18</b>

## Weightage to level of difficulty:

<b>Level</b>	<b>Weightage</b>	<b>Marks</b>
Easy	<b>40%</b>	<b>46</b>
Average	<b>40%</b>	<b>46</b>
Difficult	<b>20%</b>	<b>23</b>

### **GENERAL GUIDELINES FOR SETTING THE QUESTION PAPER**

1. Variation of 1 mark in each chapter or unit weightage is permitted while preparing the blue print and the total marks should not exceed 115.
2. The question paper should be prepared on the basis of blueprint following the weightage of marks fixed for each chapter. The questions must 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 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 for application/reasoning/analytical/HOTS questions.
6. When a question carrying 3 or 5 marks is split, the sub questions should be derived from the same concept or different concepts of same chapter.
7. Only one 5 mark numerical problem has to be set from chapters corresponding to a pair of consecutive units like I & II, III & IV, V & VI, VII & VIII, IX & X.
8. In part A (I main) 3 MCQ and in part D (VI main) 3 numerical problems of same difficulty level must be framed to check Higher Order Thinking Skills.
9. Only one simple numerical problem can be included in each of the part B (2 mark) and part C (3 mark).

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