

Design of Question Paper

II PUC PHYSICS (33)

Time: 3 Hours 15 Minutes (of which 15 minutes for reading the question paper)

Max. Marks: 70

The weightage of the distribution of marks over different dimensions of the question paper is as follows:

A. Weightage Objectives:

Objective	Weightage	Marks
Knowledge	40%	46/115
Understanding	30%	34/115
Application	20%	23/115
Skill	10%	12/115

B. Weightage to content/ subject units:

Unit No.	Chapter No.	Topic	No. of Hours	Marks
I	1	Electric Charges and Fields	10	10
II	2	Electric Potential and Capacitance	9	9
III	3	Current Electricity	15	14
IV	4	Moving Charges and Magnetism	12	11
V	5	Magnetism and Matter	8	7
	6	Electromagnetic Induction	7	7
VI	7	Alternating Current	8	8
	8	Electromagnetic Waves	3	3
VII	9	Ray Optics and Optical Instruments	10	9
VIII	10	Wave Optics	10	9
IX	11	Dual Nature of Radiation and Matter	6	6
	12	Atoms	5	5
X	13	Nuclei	7	7
	14	Semiconductor Devices & Electronics	10	10
TOTAL			120	115

C. Weightage to form of questions:

Part	Question Main	Type of questions	Marks	Number of questions to be set	Number of questions to be answered
A	I	Multiple Choice Questions (MCQ)	1	15	15
	II	Fill in the blank type (FIB)	1	5	5
B	III	Short Answer (SA1)	2	9	5
C	IV	Short Answer (SA2)	3	9	5
D	V	Long Answer (LA)	5	6	3
	VI	Numerical Problems (NP)	5	4	2
TOTAL				48	35

Note:

1. Questions in I Main (MCQ) should be knowledge based only and should not involve numerical calculations.
2. Questions in II Main (FIB) should be simple, direct and should not involve numerical calculations.

D. Weightage to level of difficulty:

Level	Weightage	Marks
Easy	40%	46/115
Average	40%	46/115
Difficult	20%	23/115

General instructions

1. This blueprint must be used for setting question papers for all future examinations.
2. Questions should be clear, unambiguous, understandable and free from grammatical errors.
3. 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, SA, LA and NP).

**Blue Print for the Physics Question Paper
II PUC PHYSICS (33)**

Unit	Chapter	Topic	Teaching Hours	Marks allotted	1 Mark (MCQ)	1 Mark (FIB)	2 Marks (SA1)	3 Marks (SA2)	5 Marks (LA)	5 Marks (NP)
I	1	Electric Charges and Fields	10	10	✓	✓		✓	✓	
II	2	Electric Potential and Capacitance	9	9	✓ ✓		✓			✓
III	3	Current Electricity	15	14	✓			✓	✓	✓
IV	4	Moving Charges and Magnetism	12	11	✓		✓	✓	✓	
V	5	Magnetism and Matter	8	7	✓	✓	✓	✓		
	6	Electromagnetic Induction	7	7	✓ ✓		✓	✓		
VI	7	Alternating Current	8	8	✓		✓			✓
	8	Electromagnetic Waves	3	3	✓		✓			
VII	9	Ray Optics and Optical Instruments	10	9	✓			✓	✓	
VIII	10	Wave Optics	10	9	✓	✓	✓			✓
IX	11	Dual Nature of Radiation and Matter	6	6	✓				✓	
	12	Atoms	5	5			✓	✓		
X	13	Nuclei	7	7	✓	✓	✓	✓		
	14	Semiconductor Devices & Electronics	10	10	✓	✓		✓	✓	
TOTAL = 115 Marks			120	115	15	05	18	27	30	20

Instructions:

1. This blueprint must be used for setting question papers for all future examinations.
2. 5 Mark questions from chapters *Dual Nature of Radiation and Matter* and *Semiconductor Electronics* must be split questions of the form (1 + 2 + 2) or (1 + 1 + 1 + 2) or (2 + 3).
3. 3 Mark Question from the chapter *Nuclei* must be a numerical problem.