

Design of Question Paper

II PUC PHYSICS

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 to Objectives:

Objective	Weightage	Marks
Knowledge	40%	43/105
Understanding	30%	31/105
Application	20%	21/105
Skill	10%	10/105

B. Weightage to content/subject units:

Unit No.	Chapter No.	Topic	No. of Hours	Marks
I	1	Electric Charges and Fields	9	8
II	2	Electrostatic Potential and Capacitance	9	8
III	3	Current Electricity	15	13
IV	4	Moving Charges and Magnetism	10	9
V	5	Magnetism and Matter	8	7
	6	Electromagnetic Induction	7	6
VI	7	Alternating Current	8	7
	8	Electromagnetic Waves	2	2
VII	9	Ray Optics and Optical Instruments	9	8
VIII	10	Wave Optics	9	8
IX	11	Dual Nature of Radiation And Matter	6	5
	12	Atoms	5	5
X	13	Nuclei	7	6
	14	Semiconductor Electronics	12	10
	15	Communication Systems	4	3
TOTAL			120	105

Note: Variation of 1Mark per chapter is allowed, however the total marks should not exceed 105.

C. Weightage to forms of Questions:

Part	Question Main	Type of questions	Marks	Number of questions to be set	Number of questions to be answered
A	I	Very short answer(VSA)	1	10	10
B	II	Short answer(SA1)	2	8	5
C	III	Short answer(SA2)	3	8	5
D	IV	Long answer(LA)	5	3	2
	V	Long answer(LA)	5	3	2
	VI	Numerical Problems(NP)	5	5	3

Note:

- 1. Questions in IV Main must be set from Unit I to V.*
- 2. Questions in V Main must be set from Unit VI to X.*
- 3. Questions in VI Main must be set such that one Numerical Problem is from every 2 successive units.*

D. Weightage to level of difficulty:

Level	Weightage	Marks
Easy	40%	43/105
Average	40%	42/105
Difficult	20%	20/105

General instructions

- Questions should be clear, unambiguous, understandable and free from grammatical errors.
- Questions which are based on same concept, law, fact etc. and which generate the same answer should not be repeated under different forms (VSA, SA, LA and NP).
- Questions must be set based on the blow up syllabus only.

Blue print for Model question paper – I

Unit	Chapter	Topic	Teaching Hours	Marks allotted	1 mark (VSA)	2 mark (SA1)	3 mark (SA2)	5 mark (LA)	5 mark (NP)
1	1	Electric Charges and Fields	9	8	✓	✓			✓
2	2	Electrostatic Potential and Capacitance	9	8		✓	✓✓		
3	3	Current Electricity	15	13	✓	✓		✓	✓
4	4	Moving Charges and Magnetism	10	8			✓	✓	
5	5	Magnetism and Matter	8	7		✓		✓	
	6	Electromagnetic Induction	7	6	✓	✓	✓		
6	7	Alternating Current	8	8			✓		✓
	8	Electromagnetic Waves	2	2	✓✓				
7	9	Ray Optics and Optical Instruments	9	8	✓	✓		✓	
8	10	Wave Optics	9	8			✓		✓
9	11	Dual nature of Radiation And Matter	6	5	✓✓		✓		
	12	Atoms	5	5					✓
10	13	Nuclei	7	6	✓			✓	
	14	Semiconductor Electronics	12	10		✓	✓	✓	
	15	Communication Systems	4	3	✓	✓			
TOTAL			120	105	10	16	24	30	25