

Himachal Pradesh Board of School Education, Dharamshala

Subject : Physics Class: XII (Regular)

Term - I (Theory) Session : 2022-23

Time: 3 hours

Max marks: 50

Marks distribution

Unit No.	Particulars	Marks assigned
1	Electrostatics	13
	Chapter -1: Electric charges and fields	
	Chapter -2 : Electrostatic potential and capacitance	
2	Current Electricity	11
	Chapter -3: Current Electricity	
3	Magnetic effects of current and magnetism	13
	Chapter -4: Moving charges and magnetism	
	Chapter -5: Magnetism and matter	
4	Electromagnetic Induction and Alternating Currents	13
	Chapter –6: Electromagnetic Induction	
	Chapter –7: Alternating Currents	

The theory paper will be of fifty (50) marks in the Term-I and a tentative weightage of 60% will be assigned to it while compiling the final result.

Himachal Pradesh Board of School Education, Dharamshala

Subject : Physics Class: XII (Regular)

Term - I (Theory) Session : 2022-23

Time: 3 hours

Max marks: 50

Blue Print

Name of the unit	1 mark questions (MCQ)	2 marks questions	3 marks questions	4 marks questions	Total marks
Electrostatics	5	1 (Internal Choice)	2 (Internal Choice in any one question)	—	13
Current Electricity	5	1	—	1 (Internal Choice)	11
Magnetic effects of current and magnetism	5	1	2 (Internal Choice in any one question)	-----	13
Electromagnetic Induction and Alternating Currents	5	2 (Internal Choice in any one question)	—	1 (Internal Choice)	13
Break up of total 31 questions	20	5	4	2	
Total marks	1x20 =20	2x5 = 10	3x4 = 12	4 x 2 =8	50

Subject : Physics

Class: XII (Regular)

Term – I (Theory)

Session : 2022-23

Blue Print of MCQ

Sr No	Type of question	No. Of questions
<u>1</u>	Concept based/ direct	8
<u>2</u>	Numerical based (Application and skill based)	4
<u>3</u>	Match the columns	2
<u>4</u>	Case study/ Comprehensions	2
<u>5</u>	Assertion and Reasoning	2
<u>6</u>	Diagram / graph/interpretation	1
<u>7</u>	Miscellaneous (Understanding and knowledge based)	1
Total no. Of questions		20

Each MCQ carries 1 mark only

No internal choice be given in the MCQ section

Subject : Physics **Class: XII (Regular)**

Term - II (Theory) **Session : 2022-23**

Time: 3 hours

Max marks: 50

Marks distribution

Unit No.	Particulars	Marks assigned
5	Electromagnetic Waves	5
	Chapter – 8: Electromagnetic Waves	
6	Optics	18
	Chapter –9 : Ray optics and optical instruments	
	Chapter –10 : Wave optics	
7	Dual Nature of Radiation and Matter	5
	Chapter –11: Dual Nature of Radiation and Matter	
8	Atoms and Nuclei	7
	Chapter –12: Atoms	
	Chapter –13: Nuclei	
9	Electronic Devices	10
	Chapter –14: Semiconductor devices and Digital circuits	
10	Communication Systems	5
	Chapter –15: Communication Systems	
Total		50

The theory paper will be of fifty (50) marks in the Term-II and a tentative weightage of 60% will be assigned to it while compiling the final result.

Himachal Pradesh Board of School Education, Dharamshala

Subject : Physics

Class: XII (Regular)

Term - II (Theory) Session : 2022-23**Time: 3 hours****Max marks: 50****Blue Print**

Name of the unit	1 mark questions (MCQ)	2 marks questions	3 marks questions	4 marks questions	Total marks
Electromagnetic Waves	2	—	1 (Internal Choice)	—	5
Optics	7	2 (Internal Choice in any one question)	1	1 (Internal Choice)	18
Dual Nature of Radiation and Matter	3	1 (Internal Choice)	—	—	5
Atoms and Nuclei	2	1	1 (Internal Choice)	—	7
Electronic Devices	4	1	—	1 (Internal Choice)	10
Communication Systems	2	—	1	—	5
Break up of total 31 questions	20	5	4	2	
Total marks	1x20 =20	2x5 = 10	3x4 = 12	4 x 2 =8	50

Himachal Pradesh Board of School Education, Dharamshala

Subject : Physics

Class: XII (Regular)

Term - II (Theory)

Session : 2022-23

Blue Print of MCQ

Sr No	Type of question	No. Of questions
<u>1</u>	Concept based/ direct	8
<u>2</u>	Numerical based (Application and skill based)	4
<u>3</u>	Match the columns	2
<u>4</u>	Case study/ Comprehensions	2
<u>5</u>	Assertion and Reasoning	2
<u>6</u>	Diagram / Circuit diagram	1
<u>7</u>	Miscellaneous (Understanding and knowledge based)	1
Total no. Of questions		20

Each MCQ carries 1 mark only

No internal choice be given in the MCQ section