

**Design of Question Paper**  
**Class XI -Physics(042)**  
**Annual Examination: 2021-22**

S.No.	Typology of Questions	SA (2marks)	LA-I (3marks)	A/R (5marks)	C.B.P. (4marks)	LA-II (5marks)	Total Marks	Percentage
1.	Remembering	2 questions	-	1 question	-	-	5	11%
2.	Understanding	1 question (Nr)	1 question	1 question	2 questions	1 question	13	30%
3.	Applying	1 question (Nr)	2 questions (1-Nr)	1 question	1 question	1 question	15	33%
4.	Analysing & Evaluating	2 questions	1 question (Nr)	2 questions	1 question	-	10	22%
5.	Creating	1 question	-	-	-	-	02	04%
<b>Total</b>		7x2=14	4x3=12	1x5=5	1x4=4	2x5=10	45	100%

**Note :**

1. The Paper will be of 45 marks. The marks obtained by a student to be scaled down to that out of 35.
2. \* indicates internal option provided in that question.
3. This is an exemplar design. Similar design may be developed.
4. Nr indicates numerical based question.

**Blue Print**  
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S.No.	UNIT	Name	SA (2marks)	LA-I (3marks)	A/R (1x5= 5marks)	C.B.P. (1x4= 4marks)	LA-II (5marks)	Total Marks
1.	VII	Properties of Bulk Matter	(1)Nr	(1)	-	*(1)	*(1)	23 Marks
2.	VIII	Thermodynamics	(1)Nr	*(1)	*(1)	-	-	
3.	IX	Behaviour of Perfect Gases and Kinetic Theory of Gases	*(1)	-	(1)	-	-	
4.	X	Oscillations and Waves	*(2)	*(1)Nr	(1)	-	*(1)	13 Marks
5.		#	*(2)	(1)Nr	(2)	-	-	09 Marks
<b>Total</b>			7x2=14	4x3=12	1x5=5	1x4=4	2x5=10	45

# Elementary concepts of differentiation and integration with example

- Unit vector; resolution of a vector in a plane, Scalar and Vector product of vectors and their applications in specific cases like work done by a force, torque and angular momentum.
- Motion in a plane - projectile motion and circular motion.
- Conservative and non-conservative forces
- Equilibrium of rigid bodies
- Gravitational potential energy and gravitational potential.

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