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	Common	Half	Yearly	Examination	٠	December	2025
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## Standard 11

Time Allowed: 3.00 Hours

PHYSICS

Maximum Marks: 70

PART-I

I.	Answer	all	the q	vest	ions:

Ans	wer all the questi	ons:		15×1=15
1)	The dimension of	$(\mu_o r_o)^{-1} 2$ is		
2)		nic oscillation, t	c) velocity he acceleration aga	d) force ainst displacement fo
31	<ul> <li>a) an ellipse</li> </ul>	b) a circle	c) a parabola	d) a straight line
3)	at $t = 4s$ , then the	pped from the to	p of a building and	it reaches the ground
	a) 77.3 m	b) 78.4 m	c) 80.5 m	
4)	the gas molecules			the mean free path o
<b>6</b> 3	a) remains same			d) quadrapoled
3)	The Centrifugal fo a) only in inertial f		xist	
	b) only in rotating			
	c) in any accelera			
	d) both in inertial		frames	T.
6)	In an isochoric pro	ocess, we have		
	a) W = 0	b) $Q = 0$	c) $\Delta U = 0$	d) $\Delta T = 0$
7)				such that one piece is I have a force constan
		b) $\frac{3}{2}$ k	c) 3k	d) 6k
8)	For a given mater	ial, the rigidity r	nodulus is $\frac{1}{3}^{rd}$ of	f Young's modulus. Its
	Poisson's ratio is			
01	a) 0	b) 0.25		d) 0.5
9)		in level with the	e center will be mo	
	a) zero		c) √2 V <sub>o</sub>	
10)	each other at		n vector of the pla	net is perpendicular to
	a) perihelion and a		b) at all point	ts
	c) only at perihelic		d) no point	
11)	The kinetic energy			
	a) equal to potent			potential energy
121	c) greater than ki		d) zero	and to me
12)	The wettability of	a surface by a lic	quia depenas prima	arily on
	a) viscosity			
	<ul><li>b) surface tension</li><li>c) density</li></ul>	1		
	c) delisity			

13) When a cycle tyre suddenly bursts, the air inside the tyre expands. This

c) isobaric

d) isochoric

d) angle of contact between the surface and the liquid

b) adiabatic

process is

a) isothermal

ii) Explain the horizontal oscillations of a spring.

(OR)