

ECAT Pre General Science Physics Chapter 7 Oscillations Online Test

C-	Overtions	Anguaga Chaine
Sr	Questions	A. Circular motion, circumference
1	A particle is moving along a circular path with uniform speed. Its projection will executealong theof the circle:	B. Vibrator, chord C. SHM, diameter D. SHM, circumference
2	A particle is moving along a circular path with uniform speed. Its projection will executealong the of the circle:	A. Circular motion, circumference B. Vibratory, chord C. SHM, diameter
		D. SHM, circumference
3	The graph showing the variation of displacement with time is a	A. Sine curve B. Straight line C. Parabola D. None of these
4	The body oscillates due to accelerates and overshoots the rest position due to	A. Applied force, Inertia B. Restoring force, Friction C. Frictional force, Inertia D. Restoring force, Inertia
5	Distance covered during one vibration of an oscillating body in terms of amplitude A is:	A. A B. 2 A C. 3 A D. 4 A
6	An angle of 180° in circular motion is equivalent to in SHM.	A. Half the vibration B. One vibration C. 3/4th of a vibration D. None of these
7	Amplitude in SHM is equivalent to in circular motion	A. Diameter B. Radius C. Circumference D. None of these
8	The string of a simple pendulum should be:	A. Heavy B. Extensible C. In-extensible D. None of these
9	When a body is vibrating, the displacement from mean position:	A. Increases with time B. Decreases with time C. Changes with time D. None of these
10	Which of the following quantity for particle executing SHM is non-zero at mean position	A. Force B. Acceleration C. Velocity D. Displacement
11	If a given spring of spring constant K is cut into two identical segments, the spring constant of each segment is:	A. K/2 B. 2 K C. 4 K D. None of these
12	The time taken to complete one vibration is called:	A. Frequency B. Amplitude C. Time D. Time period
13	If time period of a pendulum is doubled by increasing its length, then its frequency will	A. Also be doubled B. Become half C. Become one fourth D. Becomes four times
		A. Rest position
14	The restoring force is always directed towards:	B. Equilibrium position C. Mean position D. All of them
15	An object undergoes SHM. Its maximum equilibrium positions:	A. Maximum B. Half of its maximum value C. Zero D. None

16	When quarter of a circle is completed, phase of vibration is:	A. 90 <span 10.5pt;="" 107%;="" arial,="" backgrou<="" background-attachment:="" background-clip:="" background-image:="" background-limage:="" background-lip:="" background-mage:="" background-origin:="" background-position:="" background-repeat:="" background-size:="" font-family:="" font-size:="" initial;="" line-height:="" sans-serif;="" style="font-size: 10.5pt; line-height: 107%; font-family: Arial, sans-serif; background-image: initial; background-position: initial; background-size: initial; background-repeat: initial; background-attachment: initial; background-origin: initial; background-origin: initial; background-clip: initial; background-clip: initial; background-mage: initial; background-mage: initial; background-mage: initial; background-size: initial; background-repeat: initial; background-origin: initial; background-origin: initial; background-origin: initial; background-origin: initial; background-image: initial; background-position: initial; background-repeat: initial; background-image: initial; background-size: initial; background-origin: initial; background-clip: initial; background-origin: initial; background-clip: initial; background-clip: initial; background-size: initial; background-repeat: initial; background-image: initial; background-position: initial; background-repeat: initial; background-repeat: initial; background-repeat: initial; background-origin: initial; background-origi</td></tr><tr><td>17</td><td>If a force of 0.05 N produces an elongation of 20 mm in a string, then its spring constant will be:</td><td>A. 250 N m<sup>-1</sup> B. 25 N m<sup>-1</sup> C. 2.5 N m<sup>-1</sup> D. None of these</td></tr><tr><td>18</td><td>When quarter of a circle is completed, the phase of vibration is:</td><td>A. 90
		background-position: initial; background-size: initial; background- repeat: initial; background- attachment: initial; background- origin: initial; background-clip: initial;">°
19	If mass of 10 gm is suspended from a spring of K=0.8 Nm ⁻¹ then the extension will be:	background-size: initial; background- repeat: initial; background- attachment: initial; background- origin: initial; background-clip:

