

ECAT Physics Chapter 7 Oscillations Online Test

Sr	Questions	Answers Choice
1	When quarter of a cycle is completed, the phase of vibration is:	<p>A. 90°</p> <p>B. 180°</p> <p>C. 45°</p> <p>D. 360°</p>
2	The body oscillates due to _____ accelerates and overshoots the rest position due to _____:	<p>A. Applied force , inertia</p> <p>B. Restoring force, friction</p> <p>C. Frictional force, inertia</p> <p>D. Restoring force, inertia</p>
3	Amplitude in SHM is equivalent to _____ in circular motion:	<p>A. Diameter</p> <p>B. Radius</p> <p>C. Circumference</p> <p>D. None of these</p>
4	The graph showing the variation of displacement with time is a:	<p>A. Sine curve</p> <p>B. Straight line</p> <p>C. Parabola</p> <p>D. None of these</p>
5	When a body is vibrating, the displacement from mean position:	<p>A. Increases with time</p> <p>B. Decreases with time</p> <p>C. Changes with time</p> <p>D. None of these</p>
6	The restoring force is _____ and opposite to the applied force within _____:	<p>A. Equal, elastic limit</p> <p>B. Different, the walls of the laboratory</p> <p>C. Different, elastic limit</p> <p>D. None of these</p>
7	The SI unit of spring constant is identical with that of:	<p>A. Force</p> <p>B. Surface tension</p> <p>C. Pressure</p> <p>D. Loudness</p>
8	Which one of the following is an example of SHM:	<p>A. Motion in a plane</p> <p>B. Motion in a swing</p> <p>C. Motion in a car</p> <p>D. None of these</p>
9	The unit of spring constant is:	<p>A. J-sec</p> <p>B. Metre</p> <p>C. N/m</p> <p>D. N/m²</p>

		C. Inextensible D. None of these
10	To and fro motion of a body about its mean position is known as:	A. Translatory motion B. Vibratory motion C. Rotatory motion D. None of these
11	If the waves produced in a microwave oven are of wave-length 12 cm, then their frequency will be:	A. 2500 MHz B. 0.25 MHz C. 2500 KHz D. None of these
12	Free oscillations are always produced by:	A. An applied force B. Gravitational force C. Restoring force and inertia D. Inertia only
13	An object undergoes SHM. Its maximum equilibrium positions:	A. Maximum B. Half of its maximum value C. Zero D. None
14	Second's pendulum is the pendulum whose time period is:	A. 1 second B. 2 second C. 3 second D. None of these
15	The string of a simple pendulum should be:	A. Heavy B. Extensible C. In-extensible D. None of these