

Physics ECAT Pre Engineering Chapter 7 Oscillations Online Test

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

		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