

ECAT Pre General Science Physics Chapter 7 Oscillations Online Test

Sr	Questions	Answers Choice
1	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
2	The number of vibrations in two seconds can be expressed asif frequency of vibration is f.	A. f B. 2 f C. 3 f D. 1/2 f
3	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
4	If a force of 0.05 N produces an elongation of 20 mm in a string, then its spring constant will be:	A. 250 N m ⁻¹ B. 25 N m ⁻¹ C. 2.5 N m ⁻¹ D. None of these
5	When quarter of a circle is completed, phase of vibration is:	A. 90

		C. Motion of violin string D. All of these
10	The SI unit of spring constant is identical with that of	A. Force B. Surface tension C. Pressure D. Loudness
11	The time taken to complete one vibration is called:	A. Frequency B. Amplitude C. Time D. Time period
12	The graph showing the variation of displacement with time is a	A. Sine curve B. Straight line C. Parabola D. None of these
13	The wave form of SHM is	A. Pulsed wave B. Square wave C. Triangular waved D. Sine wave
14	Acceleration of body executing SHM is always directed towards	A. Extreme positionB. Mean positionC. Along the direction of motionD. None
15	To and from motion of a body about its mean position is known as:	A. Translatory motion B. Vibratory motion C. Rotatory motion D. None of these
16	Amplitude in SHM is equivalent to in circular motion:	A. Diameter B. Radius C. Circumference D. None of these
17	In vibrational motion(SHM)	A. P.E remains conserved B. Average K.E remain constant C. Neither P.E nor K.E remains constant D. Total energy remains constant
18	If a mass of 10 gm is suspended from a spring of k = 9.8 Nm ⁻¹ , then the extension will be:	A. 1 cm B. 1 m C. 10 mm D. None of these
19	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
20	The number of vibration in two seconds can be expressed as of frequency of vibration is f:	A. f B. 2 f C. 3 f D. 1/2 f