

## ECAT Pre General Science Physics Chapter 7 Oscillations Online Test

Sr	Questions	Answers Choice
1	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
2	Amplitude in SHM is equivalent to in circular motion	A. Diameter B. Radius C. Circumference D. None of these
3	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
4	Vibratory motion is always under	A. Applied force B. Restoring force C. Periodic force D. Gravitational force
5	To and fro motion of a body is about its mean position is known as:	A. Translatory motion B. Vibratory motion C. Rotatory motion 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 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
8	Free oscillations are always produced by:	A. An applied force B. Gravitational force C. Restoring force and inertia D. Inertia only
9	A body with frequency of would complete one vibration in:	A. f seconds B. 1/f seconds C. 1 second D. f <sup>2</sup> second
10	The wave form of SHM is	A. Pulsed wave B. Square wave C. Triangular waved D. Sine wave
11	A body of mass 0.031 kg attached to one end of a spring of spring constant 0.3 N/m, then time period of spring mass system will be:	A. 1.5 sec B. 2.0 sec C. 2.3 sec D. 2.5 sec
12	Amplitude in SHM is equivalent to in circular motion:	A. Diameter B. Radius C. Circumference D. None of these
13	An oscillating body oscillates due to:	A. Applied force B. Restoring force C. Frictional force D. None of these
14	Which of the following is an example of SHM(in ideal situations)	A. Motion of simple pendulum B. Motion of horizontal spring man system C. Motion of violin string D. All of these
15	If there identical strings each of constant K are hooked together the spring constant of	A. 3 K B. 2 K

	resultant spring will be:	C. K/4 D. K/3
16	If a given spring of spring constant k is cut into two indentical segments, the spring constant of each segment is:	A. k/2 B. 2 k C. 4 k D. None of these
17	Which of the following quantity for particle executing SHM is non-zero at mean position	A. Force B. Acceleration C. Velocity D. Displacement
18	A body with frequency would complete one vibration in:	A. f seconds B. 1/f seconds C. 1 second D. f <sup>2</sup> second
19	Amplitude is the displacement of the vibrating body from:	A. One extreme position to the other extreme position B. Mean position any one extreme position C. Both A and B are correct D. None of these
20	A particle is moving along a circular path with uniform speed. Its projection will executealong theof the circle:	A. Circular motion, circumference B. Vibrator, chord C. SHM, diameter D. SHM, circumference