

## ECAT Pre General Science Physics Chapter 7 Oscillations

Sr	Questions	Answers Choice
1	The body oscillates due to _____ accelerates and overshoots the rest position due to _____:	<p>A. Applied force , inertia            B. Restoring force, friction            C. Frictional force, inertia            D. Restoring force, inertia</p>
2	When quarter of a circle is completed, phase of vibration is:	<p>A. <math>90^\circ</math>            B. <math>180^\circ</math>            C. <math>45^\circ</math>            D. <math>360^\circ</math></p>
3	A particle moving uniformly along circle its projection along diameter performs	<p>A. Linear motion            B. Projectile motion            C. SHM            D. Rotatory motion</p>
4	The number of vibrations in two seconds can be expressed as _____ if frequency of vibration is f.	<p>A. f            B. 2 f            C. 3 f            D. 1/2 f</p>
5	If a force of 0.05 N produces an elongation of 20 mm in string, then its spring constant will be:	<p>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</p>
6	Velocity of particle executing SHM will be maximum at	<p>A. Extreme position            B. Mean position            C. b/w mean and extreme            D. None</p>
7	The unit of spring constant is	<p>A. J-sec            B. Metre            C. Nm<sup>-1</sup>            D. None of these</p>
8	The restoring force is _____ and opposite tot he applied force within _____	<p>A. Equal, Elastic limit            B. Different, The walls of the laboratory            C. Different, Elastic limit            D. None of these</p>
9	The SI unit of spring constant is identical with that of	<p>A. Force            B. Surface tension            C. ...</p>

		C. Pressure D. Loudness
10	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
11	The graph showing the variation of displacement with time is a	A. Sine curve B. Straight line C. Parabola D. None of these
12	A particle is moving along a circular path with uniform speed. Its projection will execute ___ along the _____ of the circle:	A. Circular motion, circumference B. Vibratory, chord C. SHM, diameter D. SHM, circumference
13	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
14	Amplitude in SHM is equivalent to _____ in circular motion	A. Diameter B. Radius C. Circumference D. None of these
15	When a mass attached to a spring begins to move left or right from the equilibrium position, its P.E.:	A. Increases B. Decreases C. Remains constant D. None of these
16	In SHM, there is always a constant ratio between displacement of body and its:	A. Velocity B. Period C. Mass D. Acceleration
17	Hertz is unit of:	A. Time period B. Displacement C. Amplitude D. Frequency
18	The maximum distance of body from mean position when body is executing SHM is called	A. Time period B. Displacement C. Amplitude D. Frequency
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	Vibratory motion is always under	A. Applied force B. Restoring force C. Periodic force D. Gravitational force