

ECAT Physics Chapter 7 Oscillations Online Test

Sr	Questions	Answers Choice
1	Which of the following quantity for particle executing SHM is non-zero at mean position	A. Force B. Acceleration C. Velocity D. Displacement
2	A particle moving uniformly along circle its projection along diameter performs	A. Linear motion B. Projectile motion C. SHM D. Rotatory motion
3	The displacement of body executing SHM is	A. $x = a \cos \omega t$ B. $x = a \sin \omega t$ C. $x = a \sin^2 \omega t$ D. Both A, B
4	The S.I unit of frequency is	A. Vibrations s^{-2} B. Ms $^{-1}$ C. Hertz D. s $^{-1}$
5	The maximum distance of body from mean position when body is executing SHM is called	A. Time period B. Displacement C. Amplitude D. Frequency
6	The wave form of SHM is	A. Pulsed wave B. Square wave C. Triangular wave D. Sine wave
7	The acceleration of body executing SHM is directly proportional to	A. Applied force B. Amplitude C. Displacement D. Frictional force
8	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
9	Vibratory motion is always under	A. Applied force B. Restoring force C. Periodic force D. Gravitational force
10	Acceleration of body executing SHM is always directed towards	A. Extreme position B. Mean position C. Along the direction of motion D. None
11	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
12	Which of the following forces is responsible for SHM	A. Applied force B. Restoring force C. Fractional force D. Elastic force
13	SHM is type of _____ motion	A. Vibratory B. Linear C. Circular D. None