

ECAT Physics Chapter 8 Waves Online Test

Sr	Questions	Answers Choice
1	Acceleration of the mass at any instant is given by	A. $a=k/m \times$ B. $a= - m/k \times$ C. $a = - k/m \times$ D. $a=m/k \times$
2	The phase determines the	A. displacement B. amplitude C. frequency D. state of motion of vibrating body
3	The characteristic of a body executing S.H.M is that its acceleration is	A. inversely proportional to displacement B. directly proportional to displacement C. independent of displacement D. equal to zero
4	The instantaneous velocity of a body moving along a circle is directed	A. along the radius B. along the tangent C. away from the circle D. none of them
5	When half of the cycle of a body executing S.H.M is completed, then the phase of the vibration will be	A. 45° B. 90° C. 135° D. 180°
6	Angular frequency 'w' is basically a characteristics of	A. linear motion B. circular motion C. both of them D. none of them
7	The expression for restoring force is	A. $F=ma$ B. $F=kx$ C. $F= -kx$ D. $Kx=ma$
8	If $F=0.04 \text{ N}$ and $X=4 \text{ cm}$ then $K=$	A. 1 Nm^{-1} B. 2 Nm^{-1} C. 3 Nm^{-1} D. 4 Nm^{-1}
9	The expression of Hook's law is	A. $F=ma$ B. $F=kx$ C. $F= -kx$ D. $-kx=ma$
10	SI unit of frequency is	A. second B. hertz C. revolution D. vibrations/sec
11	Si units of time period is	A. second B. hertz C. revolution D. vibration/sec
12	An object undergoes S.H.M has maximum acceleration when its displacement form the means position	A. maximum B. zero C. half of the maximum value D. one third of the maximum value
13	An object undergoes S.H.M has maximum speed when its displacement from the mean position is	A. maximum B. zero C. half of the maximum value D. one third of the maximum value

14	The wave form of S.H.M will be	A. square wave B. sine wave C. rectified wave D. saw-tooth wave
15	If the displacement of a body executing S.H.M is plotted against time, then the curve is known as	A. frequency of S.H.M B. period of S.H.M C. wave form D. none of them