

MDCAT Physics Chapter 5 Oscillations Online Test

Sr	Questions	Answers Choice
1	A body complete 20 vibrations in one minute, tis time period wil be:	A. 0.05 sec B. 1.5 sec C. 3.0 sec D. 20 seconds
2	The SI unit of spring constant is identical with that of:	A. Force B. Surface tension C. Pressure D. Loudness
3	Pendulums having same lengths will vibrate with:	A. Same frequency B. Different periods C. Differnet frequeuncies D. None of these
4	A mass attached to a spring vibrates with a frequency of 0.6 cycles/sec. Its angular velocity W comes out to be :	A. 3.77 red/sec B. 10.4 red/sec C. 1.67 red/sec D. None of these
5	if ratio of time periods of two pendulum is 1:2 then the ratio of their length will be:	A. 4 : 1 B. 1 : 2 C. 1 : 4 D. None of these
6	Time period of a simple pendulum at certain placed depends upon:	A. Mass of the bob B. Amplitude C. Material of the bob D. None of these
7	When quarter of a cycle is completed , the phase of vibration is:	A. 90° B. 180° C. 45° D. 360°
8	In SHM there is always a constant ratio between displacement of a body and its:	A. Velocity B. Period C. Mass D. Acceleration
9	Which one of the following is an example of SHM.	A. Motion in a plane B. Motion in swing C. Motion in a car D. None of these
10	If a mass of 10 gm is suspended from a spring of $k= 9.8 \text{ Nm}^{-1}$, then the extension will be	A. 1 cm B. 1 m C. 10 mm D. None of these
11	At what place , motion of a simple pendulum will be the slowest:	A. On the surface of the earth B. All of the centre of earth C. At the quarter D. Both B and C
12	The time period of a simple pendulum does not depend upon.	A. Amplitude B. Mass C. Length D. Both A and B
13	When a simple pendulum swings, which of the following quantities does not become zero throughout the oscillation?	A. Speed B. weight C. Acceleration D. Momentum
14	An object in SHM will have maximum speed when its displacement from equilibrium position is :	A. Infinity B. Maximum C. Zero D. Minimum
15	A second's pendulum completes 5 vibrations in:	A. 5 seconds B. 10 seconds C. 2.5 seconds D. 15 seconds

16	While determining the time period of simple pendulum, we keep the amplitude:	A. Large B. Small C. Zero D. None of these
17	At which place simple pendulum will vibrate the slowest?	A. Muree B. Karachi C. Mount Everest D. None of these
18	Half wavelength corresponds to:	A. 0° B. 90° C. 180° D. 360°
19	A mass attached to a spring completes 60 vibrations in half minute. Its frequency is:	A. 120 Hertz B. 60 Hertz C. 30 Hertz D. 2 Hertz
20	Second's pendulum is the pendulum whose time period is:	A. 1 second B. 2 second C. 3 second D. None of these
