

MDCAT Physics Chapter 5 Oscillations Online Test

Sr	Questions	Answers Choice
1	If L is length of a simple pendulum and T is its time period, then graph between different values of L and T^2 will be	A. A curve B. A straight line C. A sine curve D. None of these
2	An oscillating body oscillates due to:	A. Applied force B. Restoring force C. Fricntional force D. None of these
3	In SHM, the acceleration is when velocity is	A. Zero, smallest B. Smallest, zero C. Zero, Zero D. Zero, greatest
4	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
5	The stirng of a simple pendulum should be	A. Heavy B. Extensible C. Inextensible D. None of these
6	Hertz is unit of :	A. Time period B. Displacement C. amplitude D. Frequency
7	In SHM there is always a constant ratio between displacement of a body and its:	A. Velocity B. Period C. Mass D. Acceleration
8	Distance covered during one vibration of an oscillating body in terms of amplitude A is:	A. A B. 2 A C. 3 A D. 4 A
9	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
10	The time taken to complete one vibration is called:	A. Frequency B. Amplitude C. Time D. Time period
11	The unit of spring constant is:	A. J-Sec B. Metre C. Nm ⁻¹ D. None of these
12	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
13	If the waves produced in a microwave oven are of wave-length 12 cm, then their frequency will be:	A. 2500 MHz B. 0.25 MHz C. 2500 KHz D. None of these
14	If time period of a pendulum is doubled by increasing its length, then its frequency will:	A. Also be doubled B. Become half C. Become one fourth D. Becomes four times
15	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

16	Second pendulum is the pendulum whose time period is:	A. 1 second B. 2 seconds C. 3 seconds D. None of these
17	While determining the time period of simple pendulum, we keep the amplitude:	A. Large B. Small C. Zero D. None of these
18	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
19	The length of second's pendulum at a place where g=980 cm/sec ² is:	A. 77 cm B. 88.1 cm C. 99.2 cm D. 100.3 cm
20	The graph showing the variation of displacement with time is a:	A. Sine curve B. Straight line C. Parabola D. None of these