

MDCAT Physics Chapter 5 Oscillations Online Test

Sr	Questions	Answers Choice
1	Which of the following quantities /quantity becomes zero at any moment during oscillation.	A. Speed B. Acceleration C. Momentum
2	Pendulums having same lengths will vibrate with:	D. All of these A. Same frequency B. Different periods C. Differnet frequencies
3	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:	D. None of these A. 1.5 sec B. 2.0 sec C. 2.3 sec D. 2.5 sec
4	Second pendulum is the pendulum whose time period is:	A. 1 second B. 2 seconds C. 3 seconds D. None of these
5	If length of the second's pendulum is denoted by L_1 then the length of a pendulum having a period of 1 second is:	A. L/2 B. 2 L C. L / 4 D. 4 L
6	If a mass of 10 gm is suspended from a spring of k= 9.8 Nm ⁻¹ , then the extension will be	A. 1 cm B. 1 m C. 10 mm D. None of these
7	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
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 of the following is responsible for the motion of the bob of the simple pendulum:	A. mg sin□ B. Tension T C. mg cos□ D. mg
10	The time taken to complete one vibration is called:	A. Frequency B. Amplitude C. Time D. Time period
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	Second's pendulum is the pendulum whose time period is:	A. 1 second B. 2 second C. 3 second D. None of these
13	To and fro motion of a body about its mean position is known as:	A. Translatory motion B. Vibratory motion C. Rotatry motion D. None of these
14	When quarter of a cycle is completed , the phase of vibration is:	A. 90 ^o B. 180 ^o C. 45 ^o D. 360 ^o
15	The tension T in the string of a simple pendulum acts:	A. Velocity down load B. Along the string C. Vertically upward D. None of these

16	The frequency of second's pendulum is:	A. 0.5 Hz B. 1.0 Hz C. 1.5 Hz D. 2 Hz
17	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
18	While determining the time period of simple pendulum, we keep the amplitude:	A. Large B. Small C. Zero D. None of these
19	The time period of a simple pendulum does not depend upon.	A. Amplitude B. Mass C. Length D. Both A and B
20	A second's pendulum completes 5 vibrations in:	A. 5 seconds B. 10 seconds C. 2.5 seconds D. 15 seconds