MDCAT Physics Chapter 5 Oscillations Online Test

Sr	Questions	Answers Choice
1	The graph showing the variation of displacement with time is a:	A. Sine curve B. Straight line C. Parabola D. None of these
2	An object in SHM will have maximum speed when its displacement from equilibrium position is :	A. Infinity B. Maximum C. Zero D. Minimum
3	Pendulums having same lengths will vibrate with:	A. Same frequency B. Different periods C. Differnet freqeuncies D. None of these
4	An angle of 180^{o}in circular motion is equivalent to _____ in SHM.	A. Half the vibration B. One vibration C. 3/4th of a vibration D. None of these
5	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
6	The SI unit of spring constant is identical with that of:	A. Force B. Surface tension C. Pressure D. Loudness
7	A second's pendulum completes 5 vibrations in:	A. 5 seconds B. 10 seconds C. 2.5 seconds D. 15 seconds
8	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
9	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
10	In SHM there is always a constant ratio between displacement of a body and its:	A. Velocity B. Period C. Mass D. Acceleration
11	Amplitude in SHM is equivalent to_____ in circular motion.	A. Diameter B. Radius C. Circumference D. None of these
12	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
13	An oscillating body oscillates due to:	A. Applied force B. Restoring force C. Fricntional force D. None of these
14	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
15	While determining the time period of simple pendulum, we keep the amplitude:	A. Large B. Small C. Zero D. None of these

16	Free oscillations are always produced by:	A. An applied force B. Gravitational force C. Restoring force and inertia D. Inertia only
17	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
18	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
19	The string of simple pendulum should be:	A. Heavy B. Extensible C. Inextensible D. None of these
20	When the bob of a simple pendulum is at extreme position, K.E.is _____ and P.E. is _____.	A. Maximum, zero B. Minimum, zero C. zero , maximum D. None of these