MDCAT Physics Chapter 5 Oscillations Online Test

Sr	Questions	Answers Choice
1	When the mass attached to a spring begins to move left or right from the equilibrium position, its P.E.	A. Increases B. Decreases C. Remain constant D. None of these
2	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
3	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
4	The string of simple pendulum should be:	A. Heavy B. Extensible C. Inextensible D. None of these
5	Hertz is unit of :	A. Time period B. Displacement C. amplitude D. Frequency
6	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
7	Second's pendulum is the pendulum whose time period is:	A. 1 second B. 2 second C. 3 second D. None of these
8	Second pendulum is the pendulum whose time period is:	A. 1 second B. 2 seconds C. 3 seconds D. None of these
9	The stirng of a simple pendulum should be	A. Heavy B. Extensible C. Inextensible D. None of these
10	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
11	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
12	In case of spring-mass system, the ratio of the applied force to the displacement is called:	A. Planck's constant B. Decay constant C. Spring constant D. 4 Acceleration
13	The change in length of the spring in a spring -mass system is directly proportional to:	A. Frequency B. Applied force C. Velocity D. None of these
14	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:	A. 1.5 sec B. 2.0 sec C. 2.3 sec D. 2.5 sec
15	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

16	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
17	A second's pendulum completes 5 vibrations in:	A. 5 seconds B. 10 seconds C. 2.5 seconds D. 15 seconds
18	While determining the time period of simple pendulum, we keep the amplitude:	A. Large B. Small C. Zero D. None of these
19	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
20	Half wavelength corresponds to:	A. 0^o B. 90^o C. 180^o D. 360^o