

MDCAT Physics Chapter 5 Oscillations Online Test

Sr	Questions	Answers Choice
1	Hertz is unit of :	A. Time period B. Displacement C. amplitude D. Frequency
2	Second's pendulum is the pendulum whose time period is:	A. 1 second B. 2 second C. 3 second D. None of these
3	The string of a simple pendulum should be	A. Heavy B. Extensible C. Inextensible D. None of these
4	Pendulums having same lengths will vibrate with:	A. Same frequency B. Different periods C. Different frequencies D. None of these
5	In SHM there is always a constant ratio between displacement of a body and its:	A. Velocity B. Period C. Mass D. Acceleration
6	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
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	The time period of a simple pendulum does not depend upon.	A. Amplitude B. Mass C. Length D. Both A and B
9	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
10	A small bob is swung from a rope 2.45 m long. Its period of oscillation is:	A. 3.14 seconds B. 4.72 seconds C. 6.82 seconds D. 8.35 seconds
11	The SI unit of spring constant is identical with that of:	A. Force B. Surface tension C. Pressure D. Loudness
12	A body complete 20 vibrations in one minute, its time period will be:	A. 0.05 sec B. 1.5 sec C. 3.0 sec D. 20 seconds
13	While determining the time period of simple pendulum, we keep the amplitude:	A. Large B. Small C. Zero D. None of these
14	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. $2L$ C. $L/4$ D. $4L$
15	The time taken to complete one vibration is called:	A. Frequency B. Amplitude C. Time D. Time period

16	If time period of a pendulum is doubled by increasing its length, then its frequency will:	<p>A. Also be doubled</p> <p>B. Become half</p> <p>C. Become one fourth</p> <p>D. Becomes four times</p>
17	When the bob of a simple pendulum is at extreme position, K.E.is _____ and P.E. is _____.	<p>A. Maximum, zero</p> <p>B. Minimum, zero</p> <p>C. zero , maximum</p> <p>D. None of these</p>
18	At what place , motion of a simple pendulum will be the slowest:	<p>A. On the surface of the earth</p> <p>B. All of the centre of earth</p> <p>C. At the quarter</p> <p>D. Both B and C</p>
19	If a mass of 10 gm is suspended from a spring of $k= 9.8 \text{ Nm}^{-1}$, then the extension will be	<p>A. 1 cm</p> <p>B. 1 m</p> <p>C. 10 mm</p> <p>D. None of these</p>
20	A second's pendulum completes 5 vibrations in:	<p>A. 5 seconds</p> <p>B. 10 seconds</p> <p>C. 2.5 seconds</p> <p>D. 15 seconds</p>