

## ECAT Physics Chapter 7 Oscillations

Sr	Questions	Answers Choice
1	The SI unit of spring constant is identical with that of	A. Force B. Surface tension C. Pressure D. Loudness
2	If mass of 10 gm is suspended from a spring of K=0.8 Nm <sup>-1</sup> then the extension will be:	A. 10 cm B. 1 m C. 10 mn D. None of these
3	When quarter of a circle is completed, phase of vibration is:	A. 90

		D. Loudness
10	The restoring force is and opposite tot he applied force within	A. Equal, Elastic limit B. Different, The walls of the laboratory C. Different, Elastic limit D. None of these
11	If a force of 0.05 N produces an elongation of 20 mm in a string, then its spring constant will be:	A. 250 N m <sup>-1</sup> B. 25 N m <sup>-1</sup> C. 2.5 N m <sup>-1</sup> D. None of these
12	Which of the following is an example of SHM(in ideal situations)	A. Motion of simple pendulum     B. Motion of horizontal spring man     system     C. Motion of violin string     D. All of these
13	Which one of the following is an example of SHM	A. Motion in a plane B. Motion in a swing C. Motion in a car D. None of these
14	In SHM, the acceleration is when velocity is:	A. Zero, smallest B. Smallest, zero C. Zero, zero D. Zero, greatest
15	If a mass of 10 gm is suspended from a spring of k = 9.8 Nm <sup>-1</sup> , then the extension will be:	A. 1 cm B. 1 m C. 10 mm D. None of these
16	Vibratory motion is always under	A. Applied force B. Restoring force C. Periodic force D. Gravitational force
17	The number of vibrations in two seconds can be expressed asif frequency of vibration is f.	A. f B. 2 f C. 3 f D. 1/2 f
18	An object undergoes SHM. Its maximum equilibrium positions:	A. Maximum B. Half of its maximum value C. Zero D. None
19	Amplitude is the displacement of the vibrating body from:	A. One extreme position to the other extreme position B. Mean position any one extreme position C. Both A and B are correct D. None of these
20	Which one of the following is an example of SHM:	A. Motion in a plane B. Motion in a swing C. Motion in a car D. None of these