

## Simple Harmonic Motion and Waves

Sr	Questions	Answers Choice
1	The oscillations of a system in the presence of force are called amp oscillations:	A. Resistive force B. Attractive force C. Both of these D. None of these
2	To get a design on the computer screen by moving a pointer with the help of mouse is called:	A. word processing B. graphic designing C. data managing D. telecommunication
3	In CD presence of pits is indicated by:	A. 0 B. 2 C. 3 D. 1
4	A large ripple tank with a vibrator working at a frequency of 30 Hz produces 25 complete waves in a distance of 50 cm.  The velocity of the wave is:	A. 53 cms <sup>-1<o:p></o:p></sup> B. 60 cms <sup>-1</sup> <o:p></o:p> C. 750 cms <sup>-1</sup> <o:p></o:p> D. 1500cms <sup>-1</sup> <o:p></o:p> L <sp>class="MsoNormal"&gt;1500cms<sup>-1</sup><o:p></o:p></sp>
5	The time period of mass attached with a spring can be calculated by:	A. $T = 2\pi\sqrt{L/g}$ B. $T = 1/T$ C. $T = 2\pi\sqrt{g/L}$ D. $T = 2\pi\sqrt{m/k}$
6	The motion in which the friction reduces the mechanical energy of the system as times passes and the amplitude of motion reduces is called:	A. SHM B. Randum motion C. Damped motion D. None of these
7	Which rays are used to send or receive digital information along aptical fibre:	A. infrared B. alpha rays C. beta rays D. mechanical
8	In simple Harmonic motion, the acceleration of the body is proportional to the displacement.	A. Inversely B. Directly C. Equally D. None of these
9	The ratio of external force applied on the spring to displacement is called:	A. Hook's law B. Constant C. Spring constant
10	The unit of frequency is:	A. Heartz B. Vibration per second C. Cycle per second D. all a, b, c
11	Which of the following is a method of energy transfer:	A. Conduction <o:p> </o:p> B. Radiation <o:p> </o:p> C. Wave motion <o:p></o:p> D. All of these <o:p></o:p>
12	When a body moves to and fro about a point its motion is called:	A. Random motion B. Linear motion C. Vibratory motion D. Rotatory motion
13	Formula for time period of spring mass system is represented by:	A. $T = 2\pi \sqrt{m/k}$ B. $T = 2\pi \sqrt{k/m}$ C. $T = 1/2\pi \sqrt{k/m}$ D. $T = 1/2\pi \sqrt{m/k}$

. .

14	The relation between v,f andλ of a wave is:	A. νt=Λ B. fλ = ν C. νλ =f D. ν=λ/f
15	How many possible solutions are there for a prblem?	A. One B. Two C. Three D. Multiple
16	The instrument used to study the properties of waves is called:	A. Ripple tank B. Stroboscope C. Pendulum D. None of these
17	Diffraction of wave can be observed clearly only when the size of slit or obstacle is nearly to the wavelength of the wave:	A. Two times B. Equal C. Four times D. None of these
18	The number of wavelength of waves passing through a point in one secnd is called:	A. Time period B. Cycle C. Frequency D. None of these
19	With broadband information can be loaded:	A. ln 1 min <o:p></o:p> B. ln 1 sec <o:p></o:p> C. ln 1 day <o:p></o:p> D. ln 1 day <o:p></o:p> D. ln 2 days <o:p></o:p>
20	Which of the following tasks are performed by most of the algorithms?	A. Input B. Out put C. Processing D. All of these