

Simple Harmonic Motion and Waves

Sr	Questions	Answers Choice
1	The wave properties	A. ReflectionB. RefractionC. DiffractionD. All of these
2	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
3	The value of acceleration in simple harmonic motion at mean position is	A. Maximum B. Zero C. 10 N D. Both a , b
4	First voice signal was transmitted in the form of electrical signal in:	A. 1870 <o:p> </o:p> B. 1875 <o:p> </o:p> C. 1876 <o:p> </o:p> D. 1876 <o:p> </o:p> D. 1880 <o:p> </o:p>
5	Wave equation is defined as:	A. $f = T\lambda$ B. $f = V\lambda$ C. $V = 2f\lambda$ D. $V = f\lambda$
6	The unit of spring constnat is:	A. m B. kg C. Nm ² D. Nm ⁻¹
7	At mean position of pendulum, the potential energy of the pendulum is:	A. Maximum B. Minimum C. Much more D. Both a and c
8	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
9	The waves in which particle of the medium vibrate parallel to the direction of waves are called	A. Longitudinal waves B. Transverse waves C. Electromagnetic waves D. both b and c
10	Time period is reciprocal of:	A. Frequency B. Cycle C. Wavelength D. Amplitude
11	It mean position kinetic energy of the ball is:	A. Minimum B. Zero C. Maximum D. None of these
12	waves whose speed is equal to speed of light are:	A. X-rays B. sound rays C. electromagnetic waves D. shock waves
13	The energy is transferred from one place to another:	A. Through matter B. Thouth waves C. both a and b D. None of these
14	Which of the following is an example of simple harmonic motion ?	A. Motion of the simple pendulum B. The motion of ceiling fan C. The spining of the Earth on its axis D. A bouncing ball on a floor

15	Which is not a hardware:	A. CPU <o:p> </o:p> B. Window <o:p> </o:p> C. Keyboard <o:p> </o:p> D. Mouse <o:p> </o:p> /o:p> D. Mouse <o:p> </o:p> /o:p>
16	Which of the following is an example of simple harmonic motion:	A. Motion of a simple pendulum <o:p></o:p> B. The motion of ceiling fan <o:p></o:p> C. The spinning of the earth on its axis <o:p></o:p> D. A bouncing ball on a floor <o:p></o:p>
17	Which rays are used to send or receive digital information along aptical fibre:	A. infrared B. alpha rays C. beta rays D. mechanical
18	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. $T = 1/2\pi \sqrt{m/k}$
19	Which of the following characteristic of a wave is independent of the others .	A. speed B. frequency C. amplitude D. wavelength
20	With broadband information can be loaded:	A. In 1 min <o:p> B. In 1 sec<o:p></o:p> C. In 1 sec<o:p></o:p> C. In 1 day<o:p></o:p> D. In 1 day<o:p></o:p> D. In 2 days<o:p></o:p></o:p>