Simple Harmonic Motion and Waves

Sr	Questions	Answers Choice
1	The waves, which are used to detect the broken bones, are called:	A. Light waves B. x-rays C. Sound waves D. both b,c,
2	It mass of bob o a simple pendulum is doubled, its time period.	A. is doubled B. become four times C. remains same D. none of the above
3	Shock absorbers in automobiles are one practical application of:	A. SHM B. Random motion C. Damped motion D. None of these
4	The time period of frequency and time period is equal to:	A. v B. 1 C. 0 D. λ
5	If the mass of the bob of a pendulum is increased by a factor of 3, the period of the pendulum's motion will:	A. Be increased by a factor of 2<o:p></o:p> B. Remain the same<o:p></o:p> C. Be decreased by a factor of 2<o:p></o:p> D. Be decreased by factor of 4<o:p></o:p>
6	The part of waves at which particles of the medium are below the normal position are called:	A. Extreme positon B. Crest C. Trough D. None of these
7	The speed of waves can be calculated by:	A. Vt B. d x t C. f λ D. Tf
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 ratio of external force applied on the spring to displacement is called:	A. Hook's law B. Constant C. Spring constant
10	The maximum displacement from mean position is called:	A. Maximum height B. Time period C. Amplitude D. Intervel
11	Program up gradation refers to:	A. Program enhancement B. Program identification C. Program development D. Program implementation
12	The formula of time period of simple pendulum is:	A. T = 2π √L/g B. T = 2π (L/g) C. T = 2π√1/g D. T = 1/2π √L/g
13	Which of the following characteristics of a wave is independent of the others:	A. speed B. frequency C. amplitude D. wavelength
14	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
15	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. 1880<o:p></o:p>
16	If a wave moves in a slinky spring with frequency of 4Hz and wave length of 0.4m, the speed of the wave will be:	A. 1.0 ms-1 B. 1.2 ms-1 C. 1.4 ms-1 D. 1.6 ms-1
17	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^{-1<o:p></o:p>} B. 60 cms⁻¹<o:p></o:p> C. 750 cms⁻¹<o:p></o:p> D. 1500cms⁻¹<o:p></o:p>
18	The energy is transferred from one place to another:	A. Through matter B. Thouth waves C. both a and b D. None of these
19	In simple Harmonic motion, the acceleration of the body is _____ proportional to the displacement.	A. Inversely B. Directly C. Equally D. None of these
20	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