Simple Harmonic Motion and Waves

Sr	Questions	Answers Choice
1	A device which has two ways of communication is:	A. television B. radio C. hard disk D. mobile phone
2	Time period is reciprocal of:	A. Frequency B. Cycle C. Wavelength D. Amplitude
3	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 2 B. Remain the same C. Be decreased by a factor of 2 D. Be decresaed by a facro of 4
4	Shock absorbers in automobiles are one practical application of:	A. SHM B. Random motion C. Damped motion D. None of these
5	Typographical errors in BASIC statements are:	A. Runtime errors B. Logical Errors C. Syntax errors D. Execution errros
6	Waves transfer:	A. Energy<o:p></o:p> B. Wavelength<o:p></o:p> C. Velocity<o:p></o:p> D. frequency
7	If the mass of a spring mass system is doubled, its time period becomes:	A. √2 T B. T/2 C. √T/2 D. T/√2
8	BASIC is a:	A. High level language B. Low level language C. Assembly language D. Machine Language
9	waves whose speed is equal to speed of light are:	A. X-rays B. sound rays C. electromagnetic waves D. shock waves
10	The instrument used to study the properties of waves is called:	A. Ripple tank B. Stroboscope C. Pendulum D. None of these
11	At mean position of pendulum, the potential energy of the pendulum is:	A. Maximum B. Minimum C. Much more D. Both a and c
12	Which of the following characteristics of a wave is independent of the others:	A. speed B. frequency C. amplitude D. wavelength
13	The speed of waves can be calculated by:	A. Vt B. d x t C. f λ D. Tf
14	A large ripple tank with a vibrator working at a frequency of 30 Hz produces 25 complete wae in distance of 50 cm. The velocity of the wave is:	A. 54 cms⁻¹ B. 60 cms⁻¹ C. 750 cms⁻¹

		D. 1500 cms⁻¹
15	The time period of simple pendulum can be calculated by:	A. T = 2π√L/g B. T = 2 π √m/k C. T = 2 π √g/L D. T = 2 π √K/m
16	If the length of a simple pendulum is halved its time period will become:	A. T/2 B. T = T/√2 C. √2T D. 2T
17	Wave equation is defined as:	A. f = Tλ B. f = V λ C. V = 2fλ D. V = fλ
18	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>
19	The S.I unit of Spring constant is:	A. Nm B. N C. Nm-1 D. Ns
20	The maximum displacement from mean position is called:	A. Maximum height B. Time period C. Amplitude D. Intervel