

Simple Harmonic Motion and Waves

Sr	Questions	Answers Choice
1	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
2	waves whose speed is equal to speed of light are:	A. X-rays B. sound rays C. electromagnetic waves D. shock waves
3	The force applied on the mass attached with a spring is represented by:	A. $F _a$ B. $F _c$ C. $F _{ext}$ D. $F _s$
4	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. <p>Be increased by a factor of 2</p>
		B. <p>Remain the same</p>
		C. <p>Be decreased by a factor of 2</p>
		D. <p>Be decreased by factor of 4</p>
5	The relation between v, f and λ of a wave is:	A. $v f = \lambda$ B. $f \lambda = v$ C. $v \lambda = f$ D. $v = \lambda / f$
6	In CD presence of pits is indicated by:	A. 0 B. 2 C. 3 D. 1
7	The waves in which particles of the medium vibrate perpendicular to the direction of propagation of waves are called:	A. Transverse waves B. Longitudinal waves C. Electromagnetic waves D. None of these
8	Wave equation is defined as:	A. $f = T \lambda$ B. $f = V \lambda$ C. $V = 2 f \lambda$ D. $V = f \lambda$
9	Which of the following tasks are performed by most of the algorithms?	A. Input B. Out put C. Processing D. All of these
10	Typographical errors in BASIC statements are:	A. Runtime errors B. Logical Errors C. Syntax errors D. Execution errors
11	The unit of frequency is:	A. Hertz B. Vibration per second C. Cycle per second D. all a, b, c
12	The time required to complete one round trip (vibration) about mena position is called:	A. Time period B. Frequency C. Amplitude D. None of these
13	If the length of a simple pendulum is halved its time period will become:	A. $T/2$ B. $T = T/\sqrt{2}$ C. $\sqrt{2}T$ D. $2T$
14	At extreme position potential energy of the pendulum is	A. Maximum B. Miimum C. a and b D. -

		D. zero
15	The way of doing business by using web is called:	<p>A. Sources of entertainment</p> <p>B. Web business</p> <p>C. E-commerce</p> <p>D. E-mail</p>
16	The part of waves at which particles of the medium are below the normal position are called:	<p>A. Extreme position</p> <p>B. Crest</p> <p>C. Trough</p> <p>D. None of these</p>
17	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:	<p>A. 1.0 ms⁻¹</p> <p>B. 1.2 ms⁻¹</p> <p>C. 1.4 ms⁻¹</p> <p>D. 1.6 ms⁻¹</p>
18	When a body moves to and fro about a point its motion is called:	<p>A. Random motion</p> <p>B. Linear motion</p> <p>C. Vibratory motion</p> <p>D. Rotatory motion</p>
19	The energy is transferred from one place to another:	<p>A. Through matter</p> <p>B. Through waves</p> <p>C. both a and b</p> <p>D. None of these</p>
20	The disturbance travelling in a medium is called:	<p>A. Wave motion</p> <p>B. Simple harmonic motion</p> <p>C. Motion</p> <p>D. both a ,b</p>