

Simple Harmonic Motion and Waves

Sr	Questions	Answers Choice
1	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
2	Which of the following tasks are performed by most of the algorithms?	A. Input B. Out put C. Processing D. All of these
3	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
4	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>
5	Floppy has a storage capacity	A. 4-5 MB B. 3-4 MB C. 1-3 MB D. 3-6 MB
6	The disturbance travelling in a medium is called:	A. Wave motion B. Simple harmonic motion C. Motion D. both a ,b
7	Which of the following characteristic of a wave is independent of the others .	A. speed B. frequency C. amplitude D. wavelength
8	At extreme position potential energy of the pendulum is	A. Maximum B. Miimum C. a and b D. zero
9	The time period of simple pendulum can be calculated by:	A. $T = 2\pi \sqrt{L/g}$ B. $T = 2 \pi \sqrt{m/k}$ C. $T = 2 \pi \sqrt{g/L}$ D. $T = 2 \pi \sqrt{K/m}$
10	Shock absorbers in automobiles are one practical application of:	A. SHM B. Random motion C. Damped motion D. None of these
11	Program up gradation refers to:	A. Program enhancement B. Program identification C. Program development D. Program implementation
12	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
13	The way of doing business by using web is called:	A. Sources of entertainment <o:p></o:p> B. Web business <o:p></o:p> C. E-commerce <o:p></o:p> D. E-mail <o:p></o:p>

14	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>
15	Typographical errors in BASIC statements are:	A. Runtime errors B. Logical Errors C. Syntax errors D. Execution erros
16	The S.I unit of Spring constant is:	A. Nm B. N C. Nm-1 D. Ns
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	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
19	Which of the following is a method of energy transfer:	A. <pre>A. <pre>class="MsoNormal">Conduction<o:p> </o:p> B. <pre>class="MsoNormal">Radiation<o:p> </o:p> C. Wave motion<o:p></o:p> D. All of these<o:p></o:p></pre></pre></pre>
20	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