Simple Harmonic Motion and Waves

Sr	Questions	Answers Choice
1	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
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	Formula for time period of spring mass system is represented by:	A. T = 2π√m/k B. T = 2π √k/m C. T = 1/2π√k/m D. T = 1/2π√m/k
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. 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
5	In simple Harmonic motion, the acceleration of the body is _____ proportional to the displacement.	A. Inversely B. Directly C. Equally D. None of these
6	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
7	The distance between two consecutive troughs or crests is called:	A. wavelength B. Frequency C. Time period D. None of these
8	In CD presence of pits is indicated by:	A. 0 B. 2 C. 3 D. 1
9	The maximum displacement from mean position is called:	A. Maximum height B. Time period C. Amplitude D. Intervel
10	The time period of mass attached with a spring can be calculated by:	A. T = 2π√L/g B. T = 1/T C. T =2π√g/L D. T = 2π√m/k
11	The ratio of external force applied on the spring to displacement is called:	A. Hook's law B. Constant C. Spring constant
12	Floppy has a storage capacity	A. 4-5 MB B. 3-4 MB C. 1-3 MB D. 3-6 MB
13	The oscillations of a system in the presence of _____ force are called amp oscillations:	A. Resistive force B. Attractive force C. Both of these D. None of these
14	Wave transfer	A. Energy B. Frequency C. Wavelength D. Velocity
15	If the distance is nspring is 'x' of mass 'm' attached with a spring then restoring force is:	A. F =ma B. F =kx C. F = mx D. F= m/a

16	The time required to complete one round trip (vibration) abut mena position is called:	A. Time period B. Freqency C. Amplitude D. None of these
17	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
18	The relation between v,f andλ of a wave is:	A. vf=λ B. fλ = v C. vλ =f D. v=λ/f
19	When a body moves to and fro about a point its motion is called:	A. Random motion B. Linear motion C. Vibratory motion D. Rotatory motion
20	How many possible solutions are there for a prblem?	A. One B. Two C. Three D. Multiple