

Simple Harmonic Motion and Waves

Sr	Questions	Answers Choice
1	Mathematical formula of spring constant is:	<p>A. F/x B. X/F C. F/t D. F/m</p>
2	Which of the following devices can be used to produce both a transverse and longitudinal waves:	<p>A. A string B. A ripple tank C. A helical spring (slinky) D. A tuning fork</p>
3	The displacement produced in the spring directly proportional to force is called:	<p>A. Hook's law B. Boyle's law C. Newton's law D. both 'b' and 'c'</p>
4	The time period of mass attached with a spring can be calculated by:	<p>A. $T = 2\pi\sqrt{L/g}$ B. $T = 1/T$ C. $T = 2\pi\sqrt{g/L}$ D. $T = 2\pi\sqrt{m/k}$</p>
5	How many possible solutions are there for a problem?	<p>A. One B. Two C. Three D. Multiple</p>
6	The unit of frequency is:	<p>A. Hertz B. Vibration per second C. Cycle per second D. all a, b, c</p>
7	At extreme position potential energy of the pendulum is	<p>A. Maximum B. Minimum C. a and b D. zero</p>
8	If the length of a simple pendulum is halved its time period will become:	<p>A. $T/2$ B. $T/\sqrt{2}$ C. $\sqrt{2}T$ D. $2T$</p>
9	The vacuum all electromagnetic wave have the same	<p>A. speed B. frequency C. amplitude D. wavelength</p>
10	Which of the following characteristic of a wave is independent of the others .	<p>A. speed B. frequency C. amplitude D. wavelength</p>
11	Thye Water waves obey the laws of	<p>A. Reflection B. Refraction C. Diffraction D. All of these</p>
12	The time period of simple pendulum can be calculated by:	<p>A. $T = 2\pi\sqrt{L/g}$ B. $T = 2\pi\sqrt{m/k}$ C. $T = 2\pi\sqrt{g/L}$ D. $T = 2\pi\sqrt{K/m}$</p>
13	Which is not a hardware:	<p>A. CPU B. Window C. Keyboard D. Mouse</p>

14	First voice signal was transmitted in the form of electrical signal in:	<p>A. 1870</p> <p>B. 1875</p> <p>C. 1876</p> <p>D. 1880</p>
15	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>
16	Waves transfer:	<p>A. Energy</p> <p>B. Wavelength</p> <p>C. Velocity</p> <p>D. frequency</p>
17	In there is no extension in the spring then this positon is called	<p>A. Equilibrium position</p> <p>B. Unequilibrium</p> <p>C. Nautral equilibrium</p> <p>D. Stable equilibrium</p>
18	Which of the following tasks are performed by most of the algorithms?	<p>A. Input</p> <p>B. Out put</p> <p>C. Processing</p> <p>D. All of these</p>
19	Diffraction of wave can be observed clearly only when the size of slit or obstacle is nearly_____ to the wavelength of the wave:	<p>A. Two times</p> <p>B. Equal</p> <p>C. Four times</p> <p>D. None of these</p>
20	The S.I unit of Spring constant is:	<p>A. Nm</p> <p>B. N</p> <p>C. Nm-1</p> <p>D. Ns</p>