

ECAT Pre General Science Physics Chapter 8 Waves

| Sr | Questions | Answers Choice |
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| 1 | If one end of a rubber cord is fixed with a support and the other end is wiggled by hand, the waves generated on the cord are: | A. Stationary waves B. Transverse waves C. Both of these D. None of these |
| 2 | Example of vibratory motion is | A. mass suspended from a spring B. a bob of simple pendulum C. mass attached to a spring placed D. all of them |
| 3 | What is frequency of radio waves transmitted by a station, if the wavelength of those waves is 300 m? | A. 1 MHz B. 10 Hz C. 1 GHz D. 100000 Hz |
| 4 | Associated with the motion of a driven harmonic oscillator, there is a very striking phenomenon, known as | A. waves B. beat C. interference D. resonance |
| 5 | Two sound waves of slightly different frequencies propagating in the same direction produce beats due to | A. Interference B. Diffraction C. Polarization D. Refraction |
| 6 | A heavily damped system has a fairly | A. sharp resonance curve B. flat resonance curve C. both of them D. none of them |
| 7 | In solids, only following type/s of wave can travel: | A. Transverse B. Longitudinal C. Both A and B D. None of them |
| 8 | When a body is performing S.H.M., its acceleration is | A. inversely proportional to the displacement B. directly proportional to the applied force C. directly proportional to the amplitude D. directly proportional to the displacement but in opposite direction |
| 9 | The portion of the water above its mean level forms a: | A. Crest B. Trough C. Both A and B D. None of these |
| 10 | Fluids can transmit: | A. Transverse wave B. Compressional wave C. Both of them D. None of them |
| 11 | For transmission of both transverse and longitudinal waves, we can use: | A. Solid B. Gas C. Plasma D. None of these |
| 12 | A second's pendulum is a pendulum whose time period is | A. 1 second B. 2 seconds C. 3 seconds D. 4 seconds |
| 13 | The frequency of free vibrations is known as | A. free frequency B. forced frequency C. natural frequency D. un-natural frequency |
| 14 | Which one of the following could be the frequency of ultraviolet radiation? | A. 1.0×10^{16} Hz B. 1.0×10^{19} Hz C. 1.0×10^{12} Hz D. 1.0×10^{15} Hz |

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| 15 | If the displacement of a body executing S.H.M is plotted against time, then the curve is known as | A. frequency of S.H.M B. period of S.H.M C. wave form D. none of them |
| 16 | When sound waves travel from air to water which of these remains constant? | A. Velocity B. Frequency C. Wavelength D. All the above |
| 17 | Angular frequency 'w' is basically a characteristics of | A. linear motion B. circular motion C. both of them D. none of them |
| 18 | Which waves are used in sonography? | A. Microwaves B. Infra red waves C. Sound waves D. Ultrasonic waves |
| 19 | The expression of Hook's law is | A. $F=ma$ B. $F=kx$ C. $F=-kx$ D. $-kx=ma$ |
| 20 | The waves moving from a sitar to a listener in air are | A. Longitudinal progressive B. Longitudinal stationary C. Transverse progressive D. Transverse stationary |