

## ECAT Pre General Science Physics Chapter 8 Waves

Sr	Questions	Answers Choice
1	The speed of sound in a medium depends on	A. The elastic property but not on the inertia property B. The inertia property but not on the elastic property C. The elastic property as well as the inertia property D. Neither the elastic property nor the inertia property
2	The distance covered by the wave during one period is called its:	A. Wave number B. Frequency C. Wavelength D. Time period
3	The damping depends upon the	A. amplitude B. sharpness C. both of them D. none of them
4	It is possible to recognize a person by hearing his voice even if he is hidden behind a solid wall. This is due to the fact that his voice	A. Has a definite pitch B. Has a definite quality C. Has a definite capacity D. Can penetrate the wall
5	If the length of second pendulum becomes four times then its time period will become	A. Four time B. Two times C. Six times D. Eight times
6	The weight 'mg' of the bob is resolved into	A. one component B. two components C. three components D. four components
7	Smaller the damping, greater will be the	A. frequency B. wavelength C. amplitude D. none of them
8	If a freely oscillating system is subjected to an external force, then	A. free vibrations will take place B. the body will move with its natural frequency C. forced vibrations will take place D. none of them
9	While describing the motion of a simple pendulum, the frictional effects are	A. taken into account B. completely ignored C. partially ignored D. none of them
10	Velocity of sound in a diatomic as is 300 m/sec. what is its rms velocity?	A. 400 m/sec B. 40 m/sec C. 430 m/sec D. 300 m/sec
11	Longitudinal waves are also called:	A. Congressional waves B. Transverse waves C. Radio waves D. None of them
12	A stationary sound wave has frequency 165 Hz (speed of sound in air = 330 m/s) then distance between two consecutive nodes is	A. 2 m B. 1 m C. 0.5 m D. 4 m
13	If the amplitude of sound is doubled and the frequency reduced to one-fourth, the intensity of sound at the same point will be	A. Increasing by a factor of 2 B. Decreasing by a factor of 2 C. Decreasing by a factor of 4 D. Unchanged
14	The resonance will be sharp, if the amplitude decreases rapidly at a frequency	A. equal to the resonant frequency B. slight different from the resonant frequency C. greatly different from the resonant frequency

		frequency D. any one of them
15	Which type of wave can be set up in solids	A. longitudinal waves B. transverse waves C. both of them D. none of them
16	When temperature increase, the frequency of a tuning fork	A. Increases B. Decreases C. Remains same D. Increase or decreases depending on the material
17	The phase determines the	A. displacement B. amplitude C. frequency D. state of motion of vibrating body
18	In solids, only following type/s of wave can travel:	A. Transverse B. Longitudinal C. Both A and B D. None of them
19	If the time period a simple pendulum is 2 s, its frequency would be	A. 2 Hz B. 1.5 Hz C. 1.0 Hz D. 0.5 Hz
20	If two waves of length 50 cm and 51 cm produced 12 beats per second, the velocity of sound is	A. 360 m/s B. 306 m/s C. 331 m/s D. 340 ms