

## ECAT Pre General Science Physics Chapter 8 Waves

Sr	Ougations	Answers Choice
	Questions	A. along the radius B. along the tangent
1	The instantaneous velocity of a body moving along a circle is directed	C. away from the circle D. none of them
2	At a certain instant a stationary transverse wave is found to have maximum kinetic energy. The appearance of string of that instant is	A. Sinusoidal shape with amplitude A/3 B. Sinusoidal shape with amplitude
		A/2 C. Sinusoidal shape with amplitude A D. Straight line
3	When a mass 'm' is pulled slowly, the spring stretches by an amount $x_0$ , then the average force would be	A. F= Kx <sub>0</sub> B. F=1/2Kx <sub>0</sub> C. F=2Kx <sub>0</sub>
		D. F=4Kx <sub>0</sub>
4	Laplace formula is derived from	A. Isothermal change B. Adiabatic change C. Isobaric change D. None of these
5		A. string
	The bob of a simple pendulum is suspended by	B. heavy inextensible string C. light extensible string D. light inextensible string
6	The weight 'mg' of the bob is resolved into	A. one component B. two components
6		C. three components D. four components
7	Energy is not carried by	A. Transverse progressive waves     B. Longitudinal vibration
7		C. Stationary waves D. Electromagnetic
0	A simple paradology against of a	A. small light bob B. small heavy bob
8	A simple pendulum consists of a	C. big light bob D. big heavy bob
0		A. Goes on increasing B. Remains constant
9	In the same medium, velocity of the wave:	C. Goes on decreasing D. None of these
10	When an oscillatory motion repeats itself, then this type of motion is called	A. vibratory motion     B. constant motion
10		C. fixed motion D. periodic motion
11	For transmission of both transverse and longitudinal waves, we can use:	A. Solid B. Gas
11		C. Plasma D. None of these
12	An object undergoes S.H.M has maximum acceleration when its displacement form the means position	A. maximum B. zero
14		C. half of the maximum value D. one third of the maximum value
13	Example of progressive wave is	A. transverse waves B. longitudinal waves
		C. both of them D. none of them
14	In the formula for finding the angula formula in the species of th	A. kg B. kg-meter
14	In the formula for finding the speed of waves in the spring, unit of m in Sln units is:	C. kg/meter D. Meter/kg
15	In case of mechanical waves, we study the motion of	A. a single particle B. collection of particle C. any one of them

		D. none of them
16	In a resonance situation the amplitude of the motion may become extra ordinarily large, if	A. the driving force is large B. the driving force is zero C. the driving force may be feeble D. all of them
17	The vibratory motion of a body whose magnitude of acceleration is directly proportional to the magnitude of its displacement and is always directed towards the equilibrium position is called	A. rotatory motion B. motion under gravity C. angular motion D. simple harmonic motion
18	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
19	The wave motion set up in any medium depends upon:	A. Elasticity B. Inertia C. Density D. All of these
20	Which of the following changes at an antinode in a stationary wave?	A. Density only B. Pressure only C. Both pressure and density D. Neither pressure nor density