

ECAT Pre General Science Physics Chapter 8 Waves

Sr	Questions	Answers Choice
1	When a wave is travels from one place to another, it transfers:	A. Matter B. Energy C. Momentum D. Both B and C
2	The portion of the water above its mean level forms a:	A. Crest B. Trough C. Both A and B D. None of these
3	A swing has	A. one natural frequency B. two natural frequencies C. three natural frequencies D. four natural frequencies
4	Associated with the motion of a driven harmonic oscillator, there is a very striking phenomenon, know as	A. waves B. beat C. interference D. resonance
5	Which of the following is an example of a S.H.M?	A. motion of a projectile B. motion of a train along a circular path C. motion of swing D. electrons revolving sound the nucleus
6	SI unit of wave length is:	A. Kilometer B. Metre C. Centimetre D. Hertz
7	For production of beats the two sources must have	A. Different frequencies and same amplitude B. Different frequencies C. Different frequencies, same amplitude and same phase D. Different frequencies and same phase
8	Example of progressive wave is	A. transverse waves B. longitudinal waves C. both of them D. none of them
9	The expression of Hook's law is	A. $F=ma$ B. $F=kx$ C. $F= -kx$ D. $-kx=ma$
10	If the external driving force is periodic with a period compareable to the natural period of the oscillator, then we get	A. diffraction B. beat C. interference D. resonance
11	The expression for restoring force is	A. $F=ma$ B. $F=kx$ C. $F= -kx$ D. $Kx=ma$
12	At 'resonance' the transfer of energy from deriving source to the oscillator is	A. maximum B. minimum C. zero D. none of them
13	Such oscillations in which the amplitude decreases steadily with time, are called	A. resonance B. force oscillations C. large oscillations D. damped oscillations
14	transverse wave motion is possible in:	A. Air B. A mixture of NH_3 and O_2 C. Strings D. All of them

		D. All of these
15	To hear a clear echo, the reflecting surface must be at a minimum distance of	A. 10 m B. 16.5 m C. 33 m D. 66 m
16	SI unit of frequency is	A. second B. hertz C. revolution D. vibrations/sec
17	Fluids can transmit:	A. Transverse wave B. Compressional wave C. Both of them D. None of them
18	SI units of time period is	A. second B. hertz C. revolution D. vibration/sec
19	The waves which propagate out in the space due to oscillations of electric and magnetic fields are called:	A. Mechanical waves B. Electromagnetic waves C. Matter waves D. All of them
20	The characteristic of a body executing S.H.M is that its acceleration is	A. inversely proportional to displacement B. directly proportional to displacement C. independent of displacement D. equal to zero