

ECAT Pre General Science Online Test

Sr	Questions	Answers Choice
1	The speed of the secondary wavelets as mentioned in Huygen's principle is the speed of propagation of the wave itself.	A. Equal to B. Greater than C. Smaller than D. None of these
2	When a source of light isat very large distance, the shape of wavefront is:	A. SphericalB. CylindricalC. PlaneD. None of these
3	Speed of light in vacuum depends upon:	A. Frequency B. Wavelength C. Amplitude D. None of these
4	In case of point, source of light shape of wavefront is:	A. Spherical B. Cylindrical C. Plane D. None of these
5	Huygen principle is used to determine:	A. Speed of light B. Location of wavefront C. About polarized or unpolarized light D. None of them
6	Angle between the ray of light and the corresponding wavefront is:	A. 0 ° C. 90

		D. None of these
10	Wave length of that color as compared to that of violet color is:	A. Smaller B. Longer C. Equal D. None of these
11	Which one of the following can act approximately as a source of monochromatic light;	A. Neon lamp B. Fluorescent tube C. Sodium lamp D. None of these
12	Electromagnetic waves transport:	A. Energy only B. Momentum only C. Both A and B are correct D. None of is correct
13	Wave length of light, on the average, is given by:	A. 10 ⁻¹⁴ _m B. 10 ⁻¹⁰ _m C. 10 ⁻⁶ _m D. 10 ⁻⁴ _m
14	Light waves are:	A. Transverse wave B. Longitudinal wave C. Compressional wave D. None of them
15	Light has:	A. Wave nature B. Particle nature C. Dual nature D. None of these
16	For transmission of both transverse and longitudinal waves, we can use:	A. Solid B. Gas C. Plasma D. None of these
17	transverse wave motion is possible in:	A. Air B. A mixture of NH ₃ and O ₂ C. Strings D. All of these
18	The wave motion set up in any medium depends upon:	A. Elasticity B. Inertia C. Density D. All of these
19	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 card are:	A. Stationary waves B. Transverse waves C. Both of these D. None of these
20	Which one of the following wave motions is transverse:	A. Wave motion produced in water when a piece of stone is thrown into it B. Pulling of weight hanging vertically with a spiral spring C. Both of these D. None of these
21	Of the following, the option reminds of longitudinal waves.	A. Sound waves B. Heat waves C. Electromagnetic waves D. Light waves
22	Crests and troughs are formed in:	A. Longitudinal waves B. Transverse waves C. Both of these D. None of these
23	In transverse waves, the individual particles of the medium move:	A. In circles B. Perpendicular to the direction of level C. Parallel to the direction of level D. None of these
24	The portion of the water above its mean level forms a:	A. Crest B. Trough C. Both A and B D. None of these
25	SI unit of wave length is:	A. Kilometer B. Metre C. Centimetre D. Hertz
26	When the particles of the medium vibrate about their mean position, along the direction of the motion of waves then the waves are called:	A. Longitudinal waves B. Transverse waves C. Water waves

	uie iibuoli oi waves, uieli ule waves ale called.	D. Complex waves
27	In the formula for finding the speed of waves in the spring, unit of m in Sln units is:	A. kg B. kg-meter C. kg/meter D. Meter/kg
28	Which one of the following elasticizes is possessed by fluids:	A. Young's elastic modulus (length) B. Bulk elastic modulus (volume) C. Modulus of rigidity (shape) D. None of these
29	Which of the following medium/media can transmit both transverse and longitudinal waves:	A. Solids B. Liquids C. Gases D. All of them
30	In solids, only following type/s of wave can travel:	A. Transverse B. Longitudinal C. Both A and B D. None of them