

## ECAT Physics Chapter 9 Physical Optics Online Test

Sr	Questions	Answers Choice
1	The wave nature of light was proposed by:	A. Newton B. Thomas Young C. Huygen D. None of these
2	Laws of reflection and refraction can also be explained by:	A. Particle nature of light B. Quantum nature of light C. Wave nature of light D. Complex nature of light
3	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
4	When a source of light is at very large distance, the shape of wavefront is:	A. Spherical B. Cylindrical C. Plane D. None of these
5	Speed of light in vacuum depends upon:	A. Frequency B. Wavelength C. Amplitude D. None of these
6	In case of point, source of light shape of wavefront is:	A. Spherical B. Cylindrical C. Plane D. None of these
7	Huygen principle is used to determine:	A. Speed of light B. Location of wavefront C. About polarized or unpolarized light D. None of them
8	Angle between the ray of light and the corresponding wavefront is:	A. 0° B. 60° C. 90° D. 120°
9	The locus of all the points in the same phase of vibration is called:	A. Wave packet B. Wave front C. Wave pulse D. Wave train

		C. Wave number D. None of them
10	Monochromatic light means waves of:	A. Same frequency B. Same colour C. Same wavelength D. All of them
11	Frequency of red color as compared to that of violet color is:	A. Equal B. Smaller C. Greater D. None of these
12	Wave length of that color as compared to that of violet color is:	A. Smaller B. Longer C. Equal D. None of these
13	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
14	Electromagnetic waves transport:	A. Energy only B. Momentum only C. Both A and B are correct D. None of is correct
15	Wave length of light, on the average, is given by:	A. $10^{-14}\text{m}$ B. $10^{-10}\text{m}$ C. $10^{-6}\text{m}$ D. $10^{-4}\text{m}$