

MDCAT Physics Chapter 7 Light Online Test

Sr	Questions	Answers Choice
1	Speed of light in vacuum depends upon:	A. Frequency B. Wavelength C. Amplitude D. None of above
2	In case of point source of light, shape of wavefront is:	A. Spherical B. Cylindrical C. Plane D. None of these
3	Huygen principle is used to determine:	A. Speed of light B. Location of wavefront C. About polarized and unpolarized light D. None of them
4	Angle between ray of light and the corresponding wavefront is:	A. 0° B. 60° C. 90° D. 12°
5	The locus of all the points in the same phase of vibration is called:	A. Wave packet B. Wavefront C. Wave number D. None of these
6	Monochromatic light means waves of:	A. Same frequency B. Same colour C. Same wavelength D. All of them
7	Frequency of red colour as compared to that of violet colour is:	A. Equal B. Smaller C. Greater D. None of these
8	Wave length of red colour as compared to that of violet colour is:	A. Smaller B. Longer C. Equal D. None of these
		A. Neon lamp

9	Which one of the following can act approximately as a source of monochromatic light:	B. Fluorescent tube C. Sodium lamp D. None of these
10	Light waves are:	A. Mechanical waves B. Electromagnetic waves C. All of above D. None of above
11	Electromagnetic waves transport:	A. Energy only B. Momentum C. Both A and B are correct D. None is correct
12	Wavelength of light, on the average, is given by:	A. 10^{-14} m B. 10^{-10} m C. 10^{-6} m D. 10^{-4} m
13	Light waves are:	A. Transverse waves B. Longitudinal waves C. Compressional waves D. None of them
14	Light has:	A. Wave nature B. Particle nature C. Dual nature D. None of them
15	The disadvantage of the step-index fibre can be reduced by	A. graded index fibre B. non-graded index fibre C. both of these D. none of these
16	In Multimode step index fibre the refractive index from its centre to the boundary is	A. 1 B. 1.55 C. 1.52 D. 1.43
17	Multimode step index fibre is useful for	A. short distance B. long distance C. both a and b D. none of them
18	Single mode step index fibre has	A. Thick core and large cladding B. Thick core and shorter cladding C. Thin core and shorter cladding D. Thin core and larger cladding
19	The optical fibre is covered for protection with	A. rubber jacket B. plastic jacket C. steel jacket D. copper jacket
20	An optical fibre with its protective case may be typically	A. 6 m B. 6 mm C. 6 cm D. 6 nm