

MDCAT Physics Chapter 7 Light Online Test

Sr	Questions	Answers Choice
1	A beam of light of wavelength λ is incident normally on a grating of element d the angle between the zero-order and first -order spectra depends on	A. λ only B. d only C. λ and d D. λ/d and distance of screen from the grating
2	In a diffraction fringes pattern the fringes are	A. Equally spaced B. Wider near the centre and narrower away from it C. Narrower near the centre and wider away from it D. None of these
3	Colour of thin film will not show result from	A. Scattering of light B. Dispersion of light C. Interference of light D. Both a and b
4	In Young's double slit experiment the separation between the slits is halved and the distance between the slits and the screen is doubled the fringe width will	A. Be doubled B. Be quadrupled C. Remain the same D. Be halved
5	In an interference fringes pattern the fringes are	A. Equally spaced B. Wider near the centre and narrower away from it C. Narrower near the centre and wider away from it D. None of these
6	If a point source of light is placed at the focus of a convex lens the rays coming out of the lens will constitute	A. Plane wave fronts B. Cylindrical wave fronts C. Spherical wave fronts D. All of above
7	Longitudinal waves do not exhibit	A. Refraction B. Reflection C. Diffraction D. Polarization
8	The wave nature of light was proposed by	A. Einstein B. Maxwell C. Huygen D. Newton
9	Two sources of waves are called coherent if	A. Both have the same amplitude of vibrations B. Both produce waves of the same wavelength C. Both produce waves of the same wavelength having a constant phase difference D. Both produce waves having the same velocity