

MDCAT Physics Chapter 7 Light Online Test

Sr	Questions	Answers Choice
1	Power of a lens is equal to	A. Focal length in meters B. Reciprocal of focal length expressed in meters C. Double the focal length D. Half the focal length
2	The magnification of a simple microscope of focal length 5cm is	A. 3 B. 5 C. 6 D. 20
3	A point on the surface of the mirror where principle axis meets is called	A. Focus B. Centre of curvature C. Pole D. Aperture
4	Maximum detail of object can be seen from a microscope wen light used is of	A. Shorter wavelength B. Longer wavelength C. White light D. Any light
5	Least distance of distinct vision	A. Decrease with increasing age B. Increases with increasing age C. Does not vary with age D. May increase or decrease with age
6	The least distance of distinct vision for a normal eye is	A. 15 cm B. 25 cm C. $>35 \text{ cm}$ D. 1 m
7	Diffraction effect is	A. More for a round edge B. More for a sharp edge C. Less for a sharp edge D. None of these
8	The spacing between lines of diffraction grating is	A. Opaque B. Transparent C. Semi-transparent D. None of these
9	Maximum number of orders available with a grating is _____ grating element	A. Independent of B. Directly proportional to C. Inversely proportional to D. Equal to
10	Given that grating element = $0.2 \times 10^{-3} \text{ cm}$ in case of a diffraction grating. Then number of lines per centimeter will be	A. 500000 B. 5000 C. 50 D. 5
11	Michelson,s interferometer can be used to measure	A. Wavelength of light B. Intensity of light C. Amplitude of wave D. None of these
12	In Newton,s rings apparatus, we also use	A. Spectroscope B. Telescope C. Microscope D. Turn table
13	A _____ lens is used in the apparatus to get Newton,s rings	A. Plano-concave B. Plano-convex C. Convexo-concave D. Double convex
14	In YDS experiment using white light	A. Colored fringes will be obtained B. No fringes will be observed C. Alternative bright and dark fringes will be seen D. None of these
		A. Integral multiple of λ B. Integral multiple of $\frac{\lambda}{2}$ C. Integral multiple of $\frac{\lambda}{4}$ D. Integral multiple of $\frac{\lambda}{8}$

15	In YDS experiment, the condition for constructive interference of two coherent waves is that the path difference should be	family: &quot;Times New Roman&quot;; font-size: 24px; text-align: center; background-color: rgb(255, 255, 224);"><i>λ</i>/2 B. Integral multiple of<i>λ</i> C. Even integral multiple of<i>λ</i>/2 D. Both A and C
16	Conditions for interference are that the two sources should be coherent and	A. At a far off distance B. Close together C. Coinciding D. None of these
17	The bending of light when it passes from one medium to another is known as	A. Refraction B. Interference C. Polarization D. Diffraction
18	In YDS experiment, data given is $\lambda = 500 \text{ nm}$, $L = 100 \text{ cm}$, Δy comes out to be	A. 0.5 cm B. 0.5 mm C. 0.5 nm D. 0.5 m
19	Fringe spacing in YDS experiment will be maximum if we use	A. Red light B. Green light C. Violet light D. Blue light
20	If the slits in YDS experiment are made closer, fringe spacing will	A. Increase B. Decrease C. Remain same D. None of these