

MDCAT Physics Chapter 7 Light Online Test

Sr	Questions	Answers Choice
1	The different parts of spectrometer	A. Collimator B. Turn table C. Telescope D. All of these
2	Spectrometer using diffraction grating can measure	A. Wavelength of light B. Frequency of light C. Intensity of light D. None of these
3	Spectrometer can measure quite accurately prism	A. Deviation of light by a glass prism B. Angle of prism C. Refractive index of the material of prism D. None of these
4	A spectrometer is an optical device used to study the spectra from different sources of light which is	A. Absorption spectra B. Emission spectra C. Discrete spectra D. None of these
5	In normal adjustment, the length of the telescope is	A. $f_o + f_e$ B. $f_o - f_e$ C. $f_e - f_o$ D. None of these
6	When an image formed by the objective lies at the focus of both the objective and the eye-piece, the telescope is said to be in	A. Final adjustment B. Normal adjustment C. Initial adjustment D. None of these
7	When an image is placed at the focal length of the eye piece, the final image formed at	A. 2 F B. 4 F C. 6 F D. Infinity
8	The image formed after objective lens of an astronomical telescope is	A. Inverted B. Diminished C. Real D. All of these
9	In an astronomical telescope the eye piece has the focal length f_e if	A. Short B. Long C. Extremely long D. None of these
10	In an astronomical telescope the objective has the focal length f_o is	A. Small B. Very small C. Long D. None of these
11	A simple telescope consists of	A. One convex lens B. Two convex lenses C. Three convex lenses D. None of these
12	In viewing the distant objects the angle subtended at the telescope is	A. Smaller B. Bigger C. Very large D. None of these
13	Telescope is an optical device used for viewing	A. Near objects B. Not far distance C. Distant objects D. b and c
14	If the magnification $M_1 = 20.0$ for objective and $M_2 = 12.0$ then total magnification is	A. 200 B. 240 C. 260 D. 280
15	If the focal length of the eye piece 25.0 mm find its magnification	A. 12.0 B. 14.0 C. - 11.0 D. - 12.0

16	If the focal length of objective is 10 mm find its magnification	A. 18 B. 19 C. 20 D. 21
17	A microscope has an objective lens of 10 mm focal length and an eye piece of 25.0 mm focal length what is the distance between the lenses	A. ≈ 200 mm B. ≈ 210 mm C. ≈ 213 mm D. ≈ 233 mm
18	A compound microscope is consists of objective of	A. Long focal length and short focal length of eye piece B. Objective of very short focal length and eye piece of long focal length C. Objective of very short focal length end eye piece of also short focal length D. None of these
19	A compound microscope is consists of an eye piece of focal length	A. Short B. Very short C. Large D. Very large
20	A compound microscopes consists of objective of	A. Very short focal length B. Large focal length C. Very large focal length D. None of these