

Physics ICS Part 1 Full Book Mcq's Online Test

Sr	Questions	Answers Choice
1	The wavelength of X-rays is of the order of.	A. 10^{-8} m B. 10^{-10} m C. 10^{-5} m D. 10^{-4} m
2	If 'N' is number of lines rule don the grating having length 'L' then grating element 'd' is given by.	A. NL B. 2NL C. L/N D. N/2L
3	A typical diffraction grating has certain number of lines per centimeter whose range is.	A. 40 to 50 B. 400 to 5000 C. 400 to 500 D. 4000 to 5000
4	Bending of light around the edges of an obstacle is called.	A. Refraction B. Polarization C. Interference D. Diffraction
5	Michelson's interferometer can be used ot find the	A. Velocity of light B. Wavelength of light C. Velocity of sound D. Wavelength of sound
6	When one mirror of a Michelson interferometer is moved a distance of 0.5 mm, 2000 fringes and observed, The wavelength of light used is.	A. 5000 m B. 50000 \AA C. 500 cm D. 2000 \AA
7	When newton ring are seen through the transmitted light, then central spot is.	A. Dark B. Blue C. Bright D. Red
8	Newton's rings are formed due to phenomenon of.	A. Interference B. Dispersion C. Diffraction D. Polarization
9	The centre of Newton's fringe is dark due to.	A. Destructive interference B. Diffraction C. Constructive interference D. Polarization
10	Example of thin film is.	A. Soap burble B. convex lens C. Concave lens D. Glass plate
11	In red light is used as compare to blue light then fringe spacing.	A. Decreases B. Remain same C. Increases D. Becomes zero
12	In blue light is used as compare to red light then fringe spacing.	A. Increase B. Decreases C. Remain same D. Becomes zero
13	The fringe spacing in a double slit experiment can be increased by decreasing.	A. Wavelength of light B. Width of slits C. Slit separation D. Distance between the slits and the screen
14	Fringe spacing in Young's double slit experiment increases due to increase in.	A. Slit separation B. Wave length C. Order of Fringe D. Frequency of source
15	Fringe spacing is inversely proportional to.	A. Wave length B. Slit separation C. Distance between the slit and

screen
D. Frequency of light

16 Light entering from air glass does not change in its.

- A. Frequency
- B. Wavelength
- C. Velocity
- D. Direction

17 Sodium chloride in a flame gives

- A. Green light
- B. White light
- C. Red light
- D. Yellow light