

MDCAT Physics MCQ's Test

Sr	Questions	Answers Choice
1	For destructive interference the path difference is give by:	A. $(m-1/2)\lambda$ B. $(m+1/2)\lambda$ C. $m\lambda$ D. $1/2 m\lambda$
2	The prefix micro represents the _____ th part of a quantity:	A. 10^{12} B. 10^6 C. 10^{-6} D. 10^{-2}
3	The spacing between the parallel lines are served as	A. slits B. source of light C. opaque lines D. fringes
4	If 5000 lines per cm are ruled on different on a diffraction grating then the slit spacing will be	A. 5×10^{-3} B. 2×10^{-4} C. 5×10^{-5} D. 2×10^{-4}
5	Which does not show polarization	A. Longitudinal wave in gas B. Transverse wave in gas C. Both a and b D. None of these
6	If the vibrations of the light wave are confined to one plane only, then this light is called	A. unpolarized lighth B. polarized light C. sunlight D. none of them
7	In case of YDS experiment, the distance of the mth bright fringe on the screen from center is	A. $Y = (m + 1)\lambda L/d$ B. $Y = m\lambda L/d$ C. $Y = (m + 1/2)\lambda L/d$ D. None of these
8	In full wave rectification, the output DC voltage across the load is obtained for.	A. The positive half cycle of input AC only B. The negative half cycle of input AC only C. The completes cycle of input AC only D. All of the above
9	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
		A. Interference

10	The property of bending of light around the obstacle is known is	B. Polarization C. Diffraction D. None of these
11	The domains are the small regions of the order of	A. Millimeter B. Micrometer C. Micron D. None of these
12	A normal to the waves front showing direction of propagating of wave is called	A. Photon B. Particle C. Ray D. Line
13	If plane polarized light is incident on the second sheet of Polaroid, the light emitted is full light when their axes are	A. Parallel to each other B. Perpendicular to each other C. In between two positions D. None of these
14	A second's pendulum completes 5 vibrations in:	A. 5 seconds B. 10 seconds C. 2.5 seconds D. 15 seconds
15	Such type of fibre in which center core is of high refractive index and the layer over the central core is low refractive index is called	A. Step index fibre B. Multi mode step index fibres C. Multimode graded index fibre D. None of these
16	Potassium cathode in photocell emits electrons for a light:	A. Visible B. Infrared C. Ultraviolet D. X-rays
17	Which of the following is not true?	A. The Lyman series is a continuous spectrum B. The Balmer series is a line spectrum in the visible region C. The Paschen series is a line spectrum in the infrared region D. The spectral series formula can be derived from Rutherford's model of the hydrogen atom 18. The photoelectric effect is the ejection of
18	Which one of the following is an example of SHM.	A. Motion in a plane B. Motion in swing C. Motion in a car D. None of these
19	The coulomb's law is valid for the charges which are:	A. Moving and point charges B. Stationary and point charges C. Moving and non-point charges D. Stationary and large size charges
20	The unit of spring constant is:	A. J-Sec B. Metre C. Nm^{-1} D. None of these