

MDCAT Physics Chapter 7 Light Online Test

Sr	Questions	Answers Choice
1	How is the interference pattern in Young's double slit experiment affected if the sodium light is replaced by red light of the same intensity	A. The fringes will vanish B. The fringes will become brighter C. The fringes will increase D. The fringes will decrease
2	Which one of the following phenomenon cannot be explained by the wave theory of light ?	A. Reflection B. Refraction C. Photoelectric effect D. Diffraction
3	Which phenomenon of light conclusively prove that light waves are transverse waves	A. Reflection B. Diffraction C. Interference D. Polarization
4	The concentration in solution can be determined by the property known as	A. Solubility B. Insolubility C. Optical activity D. None of these
5	The organic substances which shows optical rotation when they are in solution	A. Tartaric acid B. Sugar C. Alcohol D. a and b
6	The plane of polarization is rotated many degrees when a thickness of such crystal is	A. One millimeter B. Less than one millimeter C. A few millimeter D. None of these
7	The typical example/examples of optically active crystals	A. Quartz B. Crystals of sodium chlorate C. Crystals of sodium chloride D. a and b
8	When a plane polarized light is passed through certain crystals they	A. Are totally absorbed B. Are totally reflected C. Rotate the plane of polarization D. None of these
9	Sunlight is also partially polarized because of Earth's atmosphere due to scattering by	A. Water vapours B. Air particles C. Dust particles D. All of these
10	The reflected light is	A. Unpolarized B. Polarized C. Partially polarized D. None of these
11	Glare produces when light reflects from water snow and rough road surfaces when their angle of incidence is	A. Small B. Large C. Very large D. None of these
12	The phenomenon of polarization proves that the light waves are	A. Transverse wave B. Longitudinal waves C. Stationary waves D. None of these
13	Commercial polarizing material is	A. Colour glass B. Infra red glass C. Polaroid glass D. None of these
14	The dichronic substances are used in the process getting plane polarized light	A. Selective absorption B. Refraction through crystals C. Reflection from different surfaces D. None of these
15	All possible process/processes to get plane polarized light	A. Reflection from different surfaces B. Refraction through crystals C. Scattering by small particles D. All of these

16	The polarized can be achieved by using process like	A. Coherent sources B. Diffraction C. Selective absorption D. None of these
17	The unpolarized light is	A. An ordinary incandescent bulb B. Sun C. Moon D. All of these
18	Ordinary light has components of vibrations in all possible planes. Such light is	A. Unpolarized light B. Polarized light C. Both D. None of these
19	The waves produced in a stretched string are called	A. Stationary waves B. Mechanical waves C. Transverse mechanical waves D. None of these
20	X-ray diffraction has been very useful in determining structure of	A. Hemoglobin B. Double helix structure of DNA C. Blood speed D. a and b