PPSC Physics Chapter 5 Waves and Wave Properties of Light

Sr	Questions	Answers Choice
1	A polaroid is	A. A red light filter B. A device used for a analyzing polarized light C. A device used in polarimeter D. An adjustable shutter
2	Monochromatic ight is of single.	A. Frequency B. Wave length C. Amplitude D. Pitch
3	A monochromatic light beam when passed through a prism is.	A. Diffracted B. Devlated C. Polarized D. Dispersed
4	Light waves can be polarized because they	A. have short wavelength B. Have high frequency C. Can be reflected D. Are transverse
5	Light product by a single Nicole is	A. Unpolarized B. Plane polarized C. Circulatory polarized D. Elliptically polarized
6	A plane of polarization is one in which	A. vibrations take place B. No vibrations take place C. Longitudinal vibrations take place D. Transverse vibrations take place
7	Light wave can be polarized because they	A. Are transverse in nature B. Can be reflected C. Have short wavelength D. Have high frequncies
8	With which factor disputative power of a grating increases.	A. Order of spectrum B. Number of lines per centimeter C. Order and number of lines per centimeter D. Shape of the grating
9	In a diffraction pattern, the width of any fringe is.	A. Directly proportional to slit width B. Inversely proportional to slit width C. independent of slit width D. Zero
10	The dispersive power of a grating is	A. Light used B. Separation of lines C. Frequency of light used D. Independent of wavelength
11	When a ray of light enters from rarer medium to a denser medium its wavelength.	A. Increases B. Decreases C. Remain constant D. Vanishes
12	When light enters glass from air it suffers a change in.	A. Wavelength B. Wave front C. Velocity D. All of these
13	One of the device to produce plane polarized light is.	A. A prism B. A bi prism C. A plane mirror D. A nicol prism
14	Newton's rings are experimentally derived from the phenomenon of.	A. Polarization of light B. Resolution of light C. Interference of light D. Diffraction of light
		A. its vibrations are restricted to only one plane B. Its vibrations are very strong in

15	A light beam is said to be plane polarized when	one plane C. Its vibrations take place in any plane D. Its vibrations are very weak in one plane
16	According to Huygen's principle	A. Light bends round corners B. Light travels in a straight line C. All points on primary wave front are considered centre of distances D. Light has wave nature
17	Polarized sunglasses decrease glare on a sunny day because they	A. Completely absorb light B. Block a portion of light C. Have a special colour D. refract light
18	The frequency of the fundamental mode of transverse vibration of a stretched wire 1,000 mm long is 256 Hz When the wire is shortened to 400 mm at the same tension	A. 640 Hz B. 680 Hz C. 720 Hz D. 780 Hz
19	A stretched wire with clamped ends has a fundamental frequency of 1,000 Hz. What will be the new fundamental frequency if tension in the wire is increased by 2%	A. 980 Hz B. 1,000 Hz C. 1,010 Hz D. 1,020 Hz
20	Diffraction is the property according to which light waves.	A. Change their direction on entering a different medium B. Produce chemical effects C. Bend round the corners D. Bend towards the centre