

PPSC Physics Chapter 5 Waves and Wave Properties of Light

Sr	Questions	Answers Choice
1	All particles, of a wave front vibrate	A. In same phase B. In opposite phase C. Upward down D. Left and right
2	Huygen's wave theory falls to explain	A. Diffraction B. polarization C. Interference D. Refraction
3	If in Young's double slit experiments the separation between two slits is halved then the fringe width	A. Remains unchanged B. Becomes double C. Reduces to half D. Becomes 3 times
4	Maximum number of orders available with a grating is.	A. Independent of grating element B. Directly proportional to grating element C. Inversely proportional to grating element D. Directly proportional to wavelength
5	The fact that the edge of a shadow formed by a point source of light shining on an object is not sharp is an example of.	A. Refraction B. Diffraction C. Polarization D. Dispersion
6	When white light is incident on a diffraction grating, the light that will be deviated from central image will be.	A. White B. Yellow C. Red D. Blue
7	A point source of light is situated at large distance The nature of the wave front at the point will be.	A. Cylindrical B. Spherical C. Plane D. Elliptical
8	Polarization is characteristic of.	A. Light wave B. sound waves C. Water waves D. x-rays
9	The wave phenomenon that classifies light as a transverse wave is.	A. Polarization B. Diffraction C. Interference D. Refraction
10	Light from the sun reaches the earth in	A. Spherical wave fronts B. Cylindrical wave fronts C. Plane wave fronts D. Packets
11	The fundamental frequency of a sound source is 256 Hz. What is the frequency of the first harmonic.	A. 64 B. 128 C. 256 D. 512
12	Three tuning forks of frequencies 400 Hz, 401 Hz and 402 Hz are sounded together The frequency of beats per second is.	A. 0 B. 1 C. 2 D. 3
13	Two tuning forks have same natural frequency One of them is now loaded with wax. When both the forks are sounded together they will	A. Produce interference B. Produce vibrations C. Remain in resonance D. Produce beats
14	When temperature increases, frequency of an organ pipe	A. Decreases B. Increases C. Remain the same D. Become zero
15	When the source and observer are moving away from each other the apparent pitch will	A. Increases B. Decreases C. Be zero

		D. Be infinite
16	For polarization , the direction of oscillation has to be perpendicular to the direction of travel sound waves are longitudinal waves so they cannot be.	A. Reflected B. Deflected C. Diffracted D. polarized
17	Stationary waves are produced when two identical waves are moving on the string.	A. Along the same direction B. Along the opposite direction C. Along the perpendicular direction D. Of length 1 m
18	Two tuning forks of frequencies 260 Hz and 257 Hz are sounded together the number of beats produced per seconds is.	A. 1 B. 3 C. 4 D. 257
19	Beats are the results of.	A. Diffraction of sound waves B. Interference C. Polarization D. Timber
20	Ultra sonics are the	A. Frequencies in the audible range B. Frequencies greater than 20 Hz C. Frequencies greater than 20 KHz D. Frequency lower than 20 KHz