

## PPSC Physics Topic 5 Waves and Wave Properties of Light

Sr	Questions	Answers Choice
1	Which property of waves is independent of the others.	A. Amplitude B. Velocity C. Frequency D. Wavelength
2	On loading the prong of a tuning fork with wax. Its frequency.	A. Increases B. Decreases C. Remain unchanged D. May increase or decrease
3	The loudness of a sound depends on its	A. Wavelength B. Frequency C. Wave amplitude D. Regularity
4	The sweetness or harshness of a sound depends upon its	A. Wavelength B. Frequency C. Amplitude D. Regularity
5	Polarization of light shows that light is.	A. Corpuscular in nature B. Of extremely short waves C. Longitudinal waves D. Transverse waves
6	Newton's rings are formed due to	A. Diffraction of light B. Interference of light C. Polarization of light D. Reflection of light
7	A body travels with a speed greater than the speed of sound What would be the wave front shape.	A. Elliptical B. Spherical C. Conical D. Parabolical
8	The phenomenon of interference comes about because waves obey	A. the impulse momentum theorem B. An inverse square law of intensity C. The principle of reciprocity D. The principle of super position
9	The sound velocity in moist air as compared to dry air will be	A. More B. Less C. Same D. zero
10	It is possible is distinguish between transvers and longitudinal waves from the property of.	A. Refraction B. Interference C. Diffraction D. Polarization
11	Plane polarized light can be produced by	A. Reflection B. Refraction C. Scattering of light D. All of these
12	Which is the best sound source to produce a pure note.	A. Tuning fork B. Flute C. Drum D. Harmonium
13	Which of the following characteristics of a wave is independent of the others.	A. speed B. Frequency C. Amplitude D. Wavelength
14	LASER is a device for	A. Producing a beam of white light B. Producing a beam of monochromatic and coherent light C. Producing a beam of high intensity incoherent light. D. Producing highly penetrating's X-rays

15	Two tuning forks of frequencies 260 Hz and 257 Hz are sounded together the number of beats produced per seconds is.	B. 3 C. 4 D. 257
16	Which of the following phenomenon occurs when two sound waves of equal amplitude and different frequencies travel through the same region.	A. Resonance B. Doppler's effect C. Beats D. Echo
17	The speed of a sound wave is independent of	A. Nature of medium B. Pressure C. Temperature D. Mass and energy
18	Which of the following properties of light does not vary with the nature of the medium.	A. Amplitude B. Frequency C. Wavelength D. Time period
19	Which of the following is nearly monochromatic	A. Light from sodium lamp B. Light from candle C. Light from gas lamp D. Light from sun
20	The same notes being played on sitar and veena differ in.	A. Pitch B. Quality C. Both quality and pitch D. Neither quality nor pitch