

PPSC Physics Topic 5 Waves and Wave Properties of Light

Sr	Questions	Answers Choice
1	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
2	Velocity of sound in any medium deepness upon.	A. Elasticity B. Density C. Volume D. Mass
3	The ratio of the velocity of sound in hydrogen to the velocity of sound in oxygen is	A. 4:1 B. 16:1 C. 2:1 D. 8:1
4	The loudness of a sound depend on its	A. Frequency B. Amplitude C. Speed D. Both a and b
5	A Spectrum of radiation in which the quantity being studied, such as frequency or energy takes on discrete values is called.	A. Continuous spectra B. Band spectra C. Discrete spectra D. Normal spectrum
6	When two identical waves are superimposed the velocity of the reasultant wave.	A. Increases B. Decreases C. Become zero D. Remain unchanged
7	Which of the following properties of light does not very with the nature of the medium.	A. Amplitude B. Frequency C. Wavelength D. Time period
8	For how long the sensation of sound persists in our brain.	A. 0.1 s B. 0.2 s C. 0.3 s D. 0.4 s
9	The phenomenon of polarization is done by	A. Selective absorption B. Scattering of light C. Refraction of light D. Dispersion of light
10	When two waves travelling through the same medium arrive at the same point 180° out of phase, they give rise to.	A. Polarization B. Destructive interference C. Refraction D. Constructive interference
11	In solid and liquids the variation of the speed of sound with temperature is.	A. Much greater than in air B. Slightly les than in air C. The same as in air D. Smell and usually negligible
12	The maximum displacement from the undisturbed position of the medium to the crest top is called.	A. Wavelength B. Amplitude C. Period D. Frequency
13	In order to har an echo what is the minimum distance between the sound and reflecting surface.	A. 0.65 m B. 16.5 m C. 1.65 m D. 165 m
14	Frequency less than 120 Hz are known as	A. Infrasonic B. Ultra sonics C. Super sonics D. Infrared
15	A water wave is an example of	A. Electromagnetic wave B. Longitudinal wave C. Transverse wave D. Reverberation

16	In the experiment of production of x rays electrons are accelerated towards the anode by	A. Thermionic emission B. Potential difference C. Breaking potential D. Cut of current
17	The maximum energy of photons emitted from an X rays tube is certain to be increased by	A. Increasing the voltage across the tube B. Decreasing the voltage across the tube C. Heating the metal target D. Putting a barrier in the way of photons
18	Mostly widely used types of gas LASER are.	A. Neon B. Argon ion C. Helium D. All of these
19	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
20	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