

PPSC Physics Topic 5 Waves and Wave Properties of Light

Sr	Questions	Answers Choice
1	When light enters glass from air it suffers a change in.	A. Wavelength B. Wave front C. Velocity D. All of these
2	Which of the following is a transverse wave.	A. Sound wave B. Shock wave C. Hair wave D. Radiowave
3	Hygen's principle states that	A. Light travels in straight line B. Light travels in electromagnetic waves C. All points of primary wave front are source of secondary wavelets D. Light has dual nature
4	x-rays can cause fluorescence in materials such as	A. Cadmium B. Zinc sulphide C. Palatinocyanide D. All of these
5	Which analysis is employed to convert a complex sound into notes.	A. Fourier theorem B. Milleman theorem C. Lissajoes theorem D. Demorgan's law
6	Which of the following is a method of energy transfer.	A. Conduction B. Wave motion C. Radiation D. All of these
7	The sweetness or harshness of a sound depends upon its	A. Wavelength B. Frequency C. Amplitude D. Regularity
8	Intensity of the dark bands in interference pattern becomes zero when two waves.	A. Of light are monochromatic B. Are of the same frequency C. Are of the same amplitude D. Travel in opposite direction
9	The locus of all points in the same state of vibrations are known as.	A. half period zone B. A wavefront C. A half wave zone D. A full wave zone
10	Which of the following gives discrete emission spectrum.	A. Sun B. Candle C. Incandescent filament D. Mercury vapour lamp
11	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
12	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
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	The energy content of a wave is proportional to its.	A. Wave velocity B. Wave velocity squared C. Frequency D. Amplitude squared
15	When mas of a string is increased 4 times its original valve, the velocity of the wave.	A. Becomes double B. Reduces to one half C. Reduces to one fourth

		D. Increases 4 times to its original value
16	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
17	On which characteristics does the loudness of sound depend upon.	A. Pitch B. Speed C. Wavelength D. Amplitude
18	Which of the following forms of electromagnetic energy has the highest frequency.	A. X rays B. Gamma rays C. Ultraviolet waves D. Infrared waves
19	Good acoustics implies	A. Obtaining as much reverberation as possible B. Making the reverberation as small as possible C. Obtaining the optimum of reverberations D. Eliminating reverberations
20	Which of the following properties of sound is affected by change in air temperature.	A. Amplitude B. Intensity C. Frequency D. Wavelength