

PPSC Physics Topic 5 Waves and Wave Properties of Light

Sr	Questions	Answers Choice
1	In the experiment of production of X rays the anti cathode should be bombarded with.	A. A particles B. Beta particles C. Electrons D. Protons
2	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
3	Beats occur due to	A. Reflection B. Refraction C. interference D. Diffraction
4	The unit of intensity of sound waves is.	A. W m-1 B. W m-2 C. N m-1 D. N m-2
5	Pitch of the sound determines	A. Its shrillness B. Loudness of sound C. Intensity level D. Quality of sound
6	The closed end of an organ pipe having longitudinal stationary waves in it behaves as	A. Antinode B. Source of waves C. Node D. Antinode
7	When two identical waves are superimposed the velocity of the resultant wave.	A. Increases B. Decreases C. Become zero D. Remain unchanged
8	Which of the following is an example band spectra.	A. Black body radiation spectrum B. Atomic spectra C. Molecular spectra D. Anomalous spectrum
9	Which characteristics successively increases in the musical scale.	A. Pitch B. Quality C. Loudness D. Amplitude
10	x-rays can cause fluorescence in materials such as	A. Cadmium B. Zinc sulphide C. Palatinocyanide D. All of these
11	Light from the sun reaches the earth in	A. Spherical wave fronts B. Cylindrical wave fronts C. Plane wave fronts D. Packets
12	Interference through thin films depends upon	A. Thickness of thin film B. Nature of material of thin film C. angle of incident light D. All of the above
13	What will be the effect on the speed of a Transerv wave in a string. If tension is made 4 times.	A. Remains the same B. Increase 4 times C. Becomes double D. Becomes 3 times
14	On which parameter the path difference between two interfering waves depends upon.	A. Amplitude B. Pitch C. Intensity D. Phase angle
15	operation of a LASER depends upon	A. Spontaneous emission of radiation B. The existence emission of radiation C. The existence of atoms in normal .

		state D. The existence of atoms in metastable state
16	Velocity of sound in air at a given temperature	A. Increases with increase in pressure B. Is independent of the pressure C. Decreases with increases in density D. Increases with increase in density
17	The pitch of sound a determined by its	A. Speed B. Frequency C. Direction D. Number of beats
18	Which of the following is an example of continuous spectra.	A. Black body radiation spectrum B. Molecular spectra C. Atomic spectra D. <div>
</div><div>grating spectrum</div></div>
19	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
20	The length of piano wire is 1 m and mass is 20 g and it is stretched by a fore of 200 N the fundamental frequency of sound waves produced by the piano will be	A. 50 Hz B. 100 Hz C. 150 HZ D. 250 Hz