

PPSC Physics Chapter 5 Waves and Wave Properties of Light

Sr	Questions	Answers Choice
1	Light wave are	A. Longitudinal B. Transverse C. Sometimes longitudinal and sometimes transverse D. Neither longitudinal nor transverse
2	When a monochromatic wave enters from one medium into another the property that remains unchanged.	A. Amplitude B. Velocity C. Frequency D. Nature of the wave
3	Longitudinal waves cannot be	A. Reflected B. Diffracted C. Dispersed D. Polarized
4	the amplitude of a wave indicates	A. Wavelength B. Frequency C. Intensity of wave D. Nature of wave
5	Beats occurs because of.	A. Reflection B. Refraction C. Interference D. Doppler's effect
6	The energy content of a wave is proportional to its.	A. Wave velocity B. Wave velocity squared C. Frequency D. Amplitude squared
7	The quality of a note	A. Decreases with loudness B. Varies directly as its pitch C. Varies inversely as its pitch D. Depends upon the overtones
8	Ultrasonic sound waves	A. Can be heard by a normal human ear B. Can be heard with the help of hearing apparatus C. Can be heard with the help of microphone D. cannot be heard
9	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
10	When transvers wave travelling in a less dense medium is reflected at an interface will a more dense medium.	A. A trough becomes a crest B. There is no phase shift C. There is phase shift of 360 D. A crest remains a crest
11	When a transverse wave is reflected on going from a more dense to a less dense medium.	A. There is no phase shift B. There is a 180 phase shift C. There is a phase shift of 360 D. A crest is transformed to a trough
12	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
13	If a rope in a hand makes 10 oscillations after every 2 s. the frequency of the wave is.	A. 2 C s ⁻¹ B. 5 C s ⁻¹ C. 10 C s ⁻¹ D. 20 C s ⁻¹
14	A longitudinal sinusoidal wave has a wavelength of 1 cm and a period of 2s. Its wave velocity is.	A. 50 cm s ⁻¹ B. 0.00t m s ⁻¹ C. 100 cm s ⁻¹ D. 200 cm s ⁻¹

		D. 5 m s ⁻¹
15	If a wave vibrates 10 times in 1 s with a speed of 10 m s ⁻¹ the correct wavelength of the wave is.	A. 1 m B. 10 m C. 20 m D. 100 m
16	If a wave vibrates 10 times in 1 s with a speed of 10 m s ⁻¹ the correct wavelength of the wave is.	A. 1 m B. 10 m C. 20 m D. 100 m
17	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
18	Which is the best sound source to produce a pure note.	A. Tuning fork B. Flute C. Drum D. Harmonium
19	The ratio of intensities of two sound waves is 4 : 9 what will be the ratio of their amplitudes.	A. 9:4 B. 2:3 C. 3:2 D. 4:9
20	On which characteristics the loudness of sound depends upon.	A. Pitch B. Speed C. Wavelength D. Amplitude