

PPSC Physics Topic 5 Waves and Wave Properties of Light

Sr	Questions	Answers Choice
1	Two tuning forks have same natural frequency One of them is now loaded with wax. When both the forks are sounded together the will	A. Produce interference B. Produce vibrations C. Remain in resonance D. Produce beats
2	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
3	A application of the phenomenon of polarization is in	A. The scattering of light beams B. Explaining the blue colour of sky C. Identifying chemicals elements D. Analysis of mechanical stress
4	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
5	Sounds of frequencies higher than 20,000 Hz are called.	A. Super sonics B. Infrasonic C. Ultrasounds D. Audible sound waves
6	A girl standing 150 m in front of tall building fires a pistol A boy standing 350 m behind her hears two bangs 1 s apart from this information what is the speed of sound in air.	A. 150 m s ⁻¹ B. 300 m s ⁻¹ C. 280 m s ⁻¹ D. 330 m s ⁻¹
7	Beats occur due to	A. Reflection B. Refraction C. interference D. Diffraction
8	Which of the following refers to the distance from crest to crest of a wave.	A. Frequency B. Wavelength C. Amplitude D. Period
9	Two tuning forks of frequencies 260 Hz and 257 Hz are sounded together the number of beats produced per seconds is.	A. 1 B. 3 C. 4 D. 257
10	the amplitude of a wave indicates	A. Wavelength B. Frequency C. Intensity of wave D. Nature of wave
11	When amplitude of a wave becomes double its energy becomes.	A. Xero B. Double C. 4 times D. 6 times
12	When light enters glass from air it suffers a change in.	A. Wavelength B. Wave front C. Velocity D. All of these
13	The loudness of a sound depend on its	A. Frequency B. Amplitude C. Speed D. Both a and b
14	A pendulum vibrates with a time period of 1 s which range of sound is produced by it	A. Audible B. Infrasonic C. Ultrasonci D. Super sonic
15	The quality of sound	A. Decreases with pitch B. Varies directly as its pitch C. Varies inversely as its pitch D. Depends upon the overtones

present there

16	Which of the following is not electromagnetic .	A. x-rays B. Gama rays C. Cathood rays D. Infrared rays
17	The shape of wave front depends on	A. Density of medium B. Shape of medium C. Viscosity of medium D. Length of medium
18	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
19	Which effect produce ultrasonic is quartz.	A. Pyroelectric effect B. Piezoelectric effect C. Hall effect D. Magnetostriction effect
20	The sound velocity in moist air as compared to dry air will be	A. More B. Less C. Same D. zero