PPSC Physics Topic 5 Waves and Wave Properties of Light

Sr	Questions	Answers Choice
1	When sound waves enter a different medium the quantity that remains unchanged a.	A. Wavelength B. Speed C. frequency D. Intensity
2	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
3	Good acoustic implies	A. Obtaining as much reverberations as possible B. Making the reverberation as small as possible C. Obtaining the optimum of reverberations D. Eliminating reverberations
4	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
5	Which of the following gives discrete emission spectrum.	A. Sun B. Candle C. Incandescent filament D. Mercury vapour lamp
6	Longitudinal waves cannot be	A. Reflected B. Difracted C. Dispersed D. Polarized
7	The phenomenon of interference occurs because waves obey	A. Laws of reflection B. Principle of super position C. Laws of motion D. Inverse square law of intensities
8	The same notes being played on sitar and veena differ in.	A. Pitch B. Quality C. Both quality and pitch D. Neither quality nor pitch
9	Balimer series lies in the	A. Visible region B. Invisible region C. Infrared region D. Far infrared region
10	Two waves of the same frequency and amplitude travelling in opposites directions along the same path in the same medium produce.	A. Stationary waves B. Transverse wave C. Longitudinal waves D. Compressional waves
11	A radiation spectrum which is continuously distributed over a frequency region without being broken up into lines or bands is known as.	A. Continuous spectrum B. Band spectrum C. discrete spectra D. Absorption spectrum
12	Which of the following is a transverse wave.	A. Sound wave B. Shock wave C. Hair wave D. Radiowave
13	If the period of a wave motion is 2 s and the wave speed is 4 cm s-1 then its frequency is	A. 1/8 C s-1 B. 1/2 C s-1 C. 2 C s-1 D. 8 C s-1
14	Wave length of a LASER can be sued as a standard of.	A. Angle B. Time C. Length D. Temperature
		A. Dispersion of light

15	Soap film in sunlight appears coloured due to	B. Diffraction of light C. Scattering of light D. Interference of light
16	The sound velocity in moist air as compared to dry air will be	A. More B. Less C. Same D. zero
17	All particles, of a wave front vibrate	A. In same phase B. In opposite phase C. Upward down D. Left and right
18	Which of the following is an example band spectra.	A. Black body radiation spectrum B. Atomic spectra C. Molecular spectra D. Anomalous spectrum
19	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
20	A LASER beam may be used to measure very large distance because it is.	A. Unidirectional B. Coherent C. Monochromatic D. Massive