PPSC Physics Topic 5 Waves and Wave Properties of Light

Sr	Questions	Answers Choice
1	Sound of frequencies lower than 20 Hz are called.	A. Supersonics B. Infra sonics C. Ultrasonic D. Audible sound waves
2	Light product by a single Nicole is	A. Unpolarized B. Plane polarized C. Circulatory polarized D. Elliptically polarized
3	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 ^o phase shift C. There is a phase shift of 360 ^o D. A crest is transformed to a trough
4	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
5	Newton's rings are experimentally derived from the phenomenon of.	A. Polarization of light B. Resolution of light C. Interference of light D. Diffraction of light
6	The spectrum of radiation due to transitions between energy levels in an atom, other absorption or emission is called.	A. Atomic spectrum B. Molecular spectrum C. Grating spectrum D. Normal specturm
7	A sonometer or audiometer is a device based on the principle of.	A. Resonance B. Beats C. Overtones D. Harmonics
8	The variation in the speed of sound with temperature is greater in.	A. Gases B. Metals C. Liquids D. Insulators
9	A body travels with a speed greater than the speed of sound What would be the wave front shape.	A. Ellipitical B. Spherical C. Conical D. Parabolical
10	We can hear beats when the difference in the frequencies of two sounding bodies is not more than.	A. 2 B. 4 C. 6 D. 10
11	Which of the following characteristics of a wave is independent of the others.	A. speed B. Frequency C. Amplitude D. Wavelength
12	Hearing damage is possible at sound pressure of	A. 0 dB B. 50 dB C. 130 dB D. 195 dB
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	Which is the correct statement regarding the nature of light.	A. It has wave nature B. It has particle nature C. It has both wave and particle nature at the same time D. It has wave nature sometime and particle nature at some other time.

15	A monochromatic light beam when passed through a prism is.	A. Diffracted B. Devlated C. Polarized D. Dispersed
16	In vacuum all electromagnetic waves have the same.	A. Frequency B. Amplitude C. Speed D. Wavelength
17	Newton's rings are formed due to	A. Diffraction of light B. Interference of light C. Polarization of light D. Reflection of light
18	Newton proposed his corpuscular theory on the basis on	A. Newton's rings B. Polarization C. Dispersion of white light D. Rectilinear property of light
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	The locus of all points in a medium having the same phase of vibration is called.	A. Creast B. trough C. Wavelength D. Wave front