

PPSC Physics Mcq's For Full Book

Sr	Questions	Answers Choice
1	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
2	The loudness of a sound deepness on its	A. Wavelength B. Frequency C. Wave amplitude D. Regularity
3	Photocells are used for	A. Security systems B. Counting systems C. Automatic door system D. All of the above
4	Which of the following is not an elastic collision	A. A man jumps on a cart B. A bullet embedded in a block C. Colliding of two glass balls D. Colliding of two tennis balls
5	Stationary waves are produced when two identical waves are moving on the string.	A. Along the same direction B. Along the opposite direction C. Along the perpendicular direction D. Of length 1 m
6	Which of the following should not change in isothermal operation.	A. Heat constant B. Volume C. Pressure D. Temperature
7	Which of the following is non renewable source of energy.	A. Wind B. Coal C. Hydroelectric D. Biomass
8	A neutron is in head on elastic collision with a stationary nitrogen nucleus The mass of nitrogen nucleus is 14 times that of a neutron The neutrons velocity after the collision is.	A. Less in magnitude than its intimal velocity B. Less in magnitude than the final velocity of the nitrogen atom C. Equal in magnitude to its initial velocity but in the opposite direction D. Greater in magnitude than its initial velocity
9	Which of the following wavelength lies in X-rays region.	A. 1 A B. 100 A C. 1,000 A D. 10,000 A
10	For total internal reflection the light rays enter	A. From rarer to denser medium B. From, denser to rarer medium C. Medium of same refractive index D. At an angle 90°
11	The process of pair production will take place if the energy of photon is greater than.	A. 0.21 MeV B. 0.51 MeV C. 1.51 MeV D. 1.21 MeV
12	The result of the alpha particle scattering experiment gave evidence for which of the following.	A. Nuclear fusion B. Radio active decay C. Existence of isotopes D. Nuclear atom
13	The force on a point charge due to electromagnetic fields is called.	A. Lorenz force B. Gauss's force C. Newton's force D. Ampere's force
14	The mass defect of Bohr's atomic model is	A. Exclusion of nuclear motion B. missing of classical and quantum theories C. Exclusion of classical and quantum theories

		C. Failed to explain the fine structure of spectral line D. All of the above
15	In Compton's effect it was considered that X-rays consist of	A. Electrons B. Holes C. Neutrons D. Protons
16	A wave source of frequency 1000 Hz emits waves of wavelength 0.1 m How long does it take for the waves to travel 2500 m.	A. 20 s B. 25 s C. 40 s D. 100 s
17	Reverberation is the	A. Presence of large number of overtones B. presence of harsh and discordant notes C. Presence of ultrasonic vibrations D. Persistence of audible sound after the source has stopped
18	If the gas pressure is increased then its mean free path becomes.	A. More B. Zero C. Infinite D. Less
19	Which example best illustrates the conservation of electrical energy to chemical energy.	A. Starting a car B. Generating hydroelectric power C. Changing an accumulator D. Melting a fuse
20	The gas temperature is increased from 27 °C to 127 °C What is the ratio of mean kinetic energies.	A. 3/4 B. 4/3 C. 9/10 D. 10/9