

## Physics ICS Part 2 Chapter 19 Online MCQ's Test

Sr	Questions	Answers Choice
1	Application of wave like nature of particle is	A. Photodiode B. Optical microscope C. Electron microscope D. Compound microscope
2	The principle regarding the dual nature of light was first discovered by	A. Heisenberg B. Compton C. J.J.Thomson D. De-Broglie
3	Photodiode is used for wave nature of.	A. Light B. Thermal radiation C. Radi waves D. Sound waves
4	The wavelength associated with the protons moving at speed of 40 m/s is.	A. 7.20 nm B. 9.02 C. 15.7 nm D. 17.3 nm
5	Which is the most refined form of matter.	A. Smoke B. Fog C. Light D. Electron
6	Wave nature of light appears in	A. Pair production B. Compton effect C. Photo electric D. Interference
7	In an nihilation emitted photons moves in opposite directions to conserve.	A. Mass B. Charge C. Energy D. Momentum
8	The photon with energy greater than 1.02 MeV can interact with matter as.	A. Photoelectric effect B. Compton effect C. Pair production D. annihilation of matter
9	Disintegration of photon on striking a nucleus into an electron and positron is known as.	A. Annihilation of matter B. Compton effect C. Pair production D. Photo electric effect
10	In Compton scatting, the value of shift is equal to Compton's wavelength, when X-rays is scattered at the angle of.	A. $90^\circ$ B. Zero C. $120^\circ$ D. $45^\circ$
11	Maximum Compton shift is observed at.	A. $30^\circ$ B. $90^\circ$ C. $45^\circ$ D. $180^\circ$
12	The quantity/factor $h/m_0c$ has the dimensions of.	A. Length B. Time C. Mass D. Energy
13	Compton effect proves.	A. Wave nature of radiation B. Wave nature of particle C. Dual nature of particle D. Particle nature of radiations
14	Photo electrons are emitted y using visible light when the metal is.	A. sodium B. Copper C. Nicked D. Cobalt
15	Pair production can take place only when energy of radiation is equal and greater than 1.02 MeV, thus correct option is.	A. X rays B. Gama rays C. Heat Radiation D. Ultraviolet rays

16	Light of 4.5 eV is incident on a Cesium surface and stopping potential is 0.25 eV, maximum K.E. of emitted electron is.	A. 4.5 eV B. 4.25 eV C. 4.75 eV D. 0.25 eV
17	The energy of the photon of wavelength 500 nm is.	A. 3.10 eV B. 2.49 eV C. 1.77 eV D. 1.52 eV