Physics ICS Part 2 Chapter 19 Online MCQ's Test

Sr	Questions	Answers Choice
1	Wave nature of light appears in	A. Pair production B. Compton effect C. Photo electric D. Interference
2	If an object moves with speed of light, its mass will be.	A. Zero B. Maximum C. Minimum D. infinity
3	In the equation if f_2 > then	
4	The dimensions of Plank's constant is same as that of.	A. Energy B. Power C. Acceleration D. Angular momentum
5	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
6	In Compton scatting, the value of shift is equal to Compton's wavelength, when X-rays is scattered at the angle of.	A. 90^oC B. Zero C. 120^oC D. 45^oC
7	Unit of Stephen's constant is	A. W m K⁻² B. W m⁻² K⁻⁴ C. W m K⁻⁴ D. None
8	The quantity/factor h/m_oc has the dimensions of.	A. Length B. Time C. Mass D. Energy
9	Antiparticle of electron is.	A. proton B. Photon C. Positron D. Neutron
10	The Compton effect is associated with	A. X-rays B. y-rays C. Positive rays D. ß-rays
11	The stopping potential for a certain metal is 10 volts. Thus work function for the cathode is.	A. 10 J B. 1.6 X 10⁻¹⁸ J C. 1.6 X 10⁻¹⁹ J D. 1.6 X 10³⁰ J
12	The concept of direction is purely	A. Relative B. Absolute C. Relative to the motion D. None of these
13	The most refined form of matter is:	A. Smoke B. Light C. Ice D. Fog
14	Einstein was awarded Nobel prize in physics in	A. 1905 B. 1911 C. 1918 D. 1921
15	Compton shift is maximum for scattering angle of photon	A. 0^o B. 90^o C. 180^o D. 45^o
		A. 2.6 x 10⁸ m/s

16	The mass of an object will be doubled at speed.	B. 1.6 x 10⁸m/s C. 2.6 x 10⁷m/s D. 3.6 x 10⁷ m/s
17	The photoelectric effect predicts that light is made of	A. Photons B. Neutrons C. Protons D. None of these
18	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
19	When a very high energy modeules such as y radiation interact with matter, the phenomenon arising will be.	A. Photoelectric effect B. Compton effect C. Pair production D. Annihilation of matter
20	Pair production cannto take place in vacuum because :	A. Mass in not conserved B. Momentum is not conserved C. Energy is not conserved D. Charge is not conserved