

Physics ICS Part 2 Chapter 19 Online MCQ's Test

Sr	Questions	Answers Choice
1	The unit for Plank's constant is:	A. $J s^{-1}$ B. $J m$ C. $J s$ D. $J m^2$
2	The minimum energy required for occurrence of pair production is:	A. 1.022eV B. 1.02keV C. 1.02MeV D. 1.04MeV
3	The quantity/factor h/m_0c has the dimensions of.	A. Length B. Time C. Mass D. Energy
4	In the equation if $f_2 >$ then	
5	A perfect absorber must also be perfect	A. Cavity B. Sources of radiation C. Radiator D. None of these
6	The uncertainty principle was given by	A. De-Broglie B. Heisenberg C. Einstein D. Max Planck
7	Compton effect proves.	A. Wave nature of radiation B. Wave nature of particle C. Dual nature of particle D. Particle nature of radiations
8	The unit of work function is	A. Electron volt B. Ampere C. Volt cell D. Hz
9	Energy of Black body radiation depends upon	A. Nature of surface of body B. Nature of material of body C. Shape and size of body D. Temperature of the body
10	Using relativistic effects the location of an air craft after an hour fight can be predicated about	A. 20 m B. 50 m C. 760 m D. 780 m
11	Antiparticle of electron is.	A. proton B. Photon C. Positron D. Neutron
12	In 1905, the special theory of relativity was proposed by	A. Einstein B. Bohr C. Maxwell D. De Broglie
13	Internal frame is a frame is which	A. 1st law holds B. 2nd law holds C. 3rd law holds D. Kelvin's law holds
14	The most refined form of matter is:	A. Smoke B. Light C. Ice D. Fog
15	The physical quantity related to photon, that does not change in Compton scattering is.	A. Energy B. Speed C. Frequency D. Wavelength
16	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. Gamma rays C. Heat Radiation

D. Ultraviolet rays

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- 17 Pair production cannot take place in vacuum because :
- A. Mass is not conserved
 - B. Momentum is not conserved
 - C. Energy is not conserved
 - D. Charge is not conserved
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- 18 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
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- 19 Earth orbital speed is.
- A. 10 km/s
 - B. 20 km/s
 - C. 30 km/s
 - D. 40 km/s
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- 20 In Compton scattering, the value of shift is equal to Compton's wavelength, when X-rays are scattered at the angle of.
- A. 90°
 - B. Zero
 - C. 120°
 - D. 45°
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