

Physics ICS Part 2 Chapter 19 Online MCQ's Test

Sr	Questions	Answers Choice
1	Photo electrons are emitted y using visible light when the metal is.	A. sodium B. Copper C. Nicked D. Cobalt
2	The maximum kinetic energy of emitted photo electrons depends upon.	A. The intensity of incident light B. Frequency of the incident light C. Metal surface D. Both frequency of incident light and metal surface.
3	When platinum wire is heated, it changes to cherry red at temperature.	A. 500 ^o C B. 900 ^o C C. 1100 ^o C D. 1300 ^o C
4	The number of electrons emitted depends upon	A. Colour of target surface B. Shape of surface C. Frequency of incident light D. Intensity of incident light
5	Pair production cann'to 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
6	Application of wave like nature of particle is	A. Photodiode B. Optical microscope C. Electron microscope D. Compound microscope
7	The most refined form of matter is:	A. Smoke B. Light C. Ice D. Fog
8	The dimensions of Plank's constant is same as that of.	A. Energy B. Power C. Acceleration D. Angular momentum
9	The Compton effect is associated with	A. X-rays B. y-rays C. Positive rays D. β-rays
10	By modern system of NAVSTAR, the speed any where on the earth can be determined to accuracy about.	A. 20 ms ⁻¹ B. 10 ms ⁻¹ C. 2 cms ⁻¹ D. 2 ms ⁻¹
11	The stopping potential for a certain metal is 10 volts. Thus work function for the cathode is.	A. 10 J B. 1.6×10^{-18} J C. 1.6×10^{-19} J D. 1.6×10^{30} J
12	Which one of the following paved the way for modern physics	A. Newtonian mechanics B. Theory of relativity C. Quantum theory D. All of above
13	The photoelectric effect predicts that light is made of	A. Photons B. Neutrons C. Protons D. None of these
14	Compton shift is maximum for scattering angle of photon	A. 0 ^o B. 90 ^o C. 180 ^o D. 45 ^o
15	The uncertainty principle was given by	A. De-Broglie B. Heisenberg C. Einstein

D. Max Planck

16 Albert Einstein got noble prize for service in:

- A. Pair production
- B. Annihilation of matter theory
- C. Compton effect
- D. Photoelectric effect

17 Which one of the following physical quantities change with relativistic speed?

- A. Length
- B. Time
- C. Mass
- D. All of above

18 In Compton effect the photon behaves as a.

- A. Wave
- B. Particle
- C. Nucleon
- D. Both a and b

19 The unit for Plank's constant is:

- A. Js^{-1}
- B. Jm
- C. Js
- D. Jm^2

20 De-Broglie waves are associated with

- A. Moving charged particles only
- B. Moving neutral particles only
- C. All moving particles
- D. All parties whether in motion or at rest