

Atomic and Nuclear Physics Objective Questions and Answers Pdf

Question: 1

Millikan's experiment determines ____

- (A) Mass of an electron
- (B) Charge density of an electron
- (C) Charge of an electron
- (D) Specific charge of an electron

Ans: C

Charge of an electron

Question: 2

The energy of a photon of characteristics X-ray from a Coolidge tube comes from ____

- (A) An atomic transition in the target
- (B) The kinetic energy of the striking electron
- (C) The kinetic energy of ions of the target
- (D) The kinetic energy of the free electrons of the target

Ans: A

An atomic transition in the target

Question: 3

Canal rays are produced at a pressure of _____ of mercury.

- (A) 1 mm
- (B) 0.01 mm
- (C) 10 mm

(D) 0.01 mm

Ans: A

1 mm

Question: 4

Cathode rays possess ____

(A) Momentum

(B) Kinetic energy

(C) Potential energy

(D) Both (a) and (b)

Ans: D

Both (a) and (b)

Question: 5

The electric current passes through a gas column if the applied potential difference is ____

(A) Small and the pressure is high

(B) Small and the pressure is low

(C) Large and the pressure is low

(D) Large and the pressure is high

Ans: C

Large and the pressure is low