CBSE Class 12 Physics Answer Key 2026 for 55/4/1

Q) An electron moves around the nucleus in a circular orbit of radius r and makes n revolutions per second. The value of the equivalent current in the orbit is?

a) e/n

b) ne

c) ne/r

d) e/nr

Correct Answer: b) ne

Q) The dimensions of the rate of change of magnetic flux are:

Correct Answer: b) [ML^2T^-3A^-1]

Q) The ratio of the amplitude of electric field to the amplitude of the magnetic field associated with an electromagnetic wave propagating in glass in (n=1.5) is?

Correct Answer: b) 2x 10^8 ms^-1

Q) While studying photoelectric emission from a given surface, the wavelength of the incident radiation is changed from 600 nm to 400 nm, keeping the intensity of radiation the same. Then:

a) cutoff potential will decrease

b) cutoff potential will increase

c) saturation current will decrease

d) saturation current will increase

Correct Answer: b) cutoff potential will increase