

Q.1: If the sizes of charged bodies are very small compared to the distances between them, we treat them as

- (a) Zero charges
(b) Point charges
(c) Single charge
(d) No charges

Q.2: The process in which a region is made free from any electric field is known as

- (a) Electrostatic forcing
(b) Electrostatic binding
(c) Electrostatic shielding
(d) None of the options

Q.3: What is the resistance of a human body?

- (a) 12Ω
(b) $120 \text{ K}\Omega$
(c) $12 \text{ K}\Omega$
(d) 2Ω

Q.4: SI unit of the magnetic field is

- (a) Dyne
(b) Ohm
(c) Tesla
(d) Volt

Q.5: A horse-shoe magnet is an example of

- (a) Natural magnet
(b) Artificial magnet
(c) Neither natural nor artificial
(d) None of the option

Q.6: Which of the following factors is the induced charge in an electromagnetic induction independent of?

- (a) Time
(b) Resistance of the coil
(c) Change of flux
(d) None of the above

Q.7: What is the frequency of the AC Mains in India?

- (a) 60 Hz
(b) 50 Hz
(c) 40 Hz
(d) 30 Hz

Q.8: What is the phase difference between electric and magnetic fields in an electromagnetic wave?

- (a) 0
(b) π
(c) $\pi/2$
(d) $\pi/4$

Q.9: Which of the following lights deviates the most when it passes through a prism?

- (a) Red Light
(b) Violet Light
(c) Neither (a) nor (b)
(d) Both (a) and (b)

Q.10: What is the geometric shape of the wavefront that originates when a plane wave passes through a convex lens?

- (a) Converging spherical
(b) Diverging spherical
(c) Plane
(d) None of the above