

Lakshya JEE (2025)

PHYSICS

DPP: 1

Electric Charges and Fields

- Q1** A soap bubble is given a negative charge, then its radius
(A) Decreases
(B) Increases
(C) Remains unchanged
(D) Nothing can be predicted as information is insufficient
- Q2** A body can be negatively charged by
(A) Giving excess of electrons to it
(B) Removing some electrons from it
(C) Giving some protons to it
(D) Removing some neutrons from it
- Q3** The minimum possible charge on an object is
(A) 1 coulomb
(B) 1 stat coulomb
(C) 1.6×10^{-19} coulomb
(D) 3.2×10^{-19} coulomb
- Q4** An attractive force between two neutrons is due to
(A) Electrostatic and gravitational
(B) Electrostatic and nuclear
(C) Gravitational and nuclear
(D) Some other forces like Vander Waals
- Q5** Two particle of equal mass m and charge q are placed at a distance of 16 cm. They do not experience any force. The value of $\frac{q}{m}$ is
(A) l
(B) $\sqrt{\frac{\pi\epsilon_0}{G}}$
(C) $\sqrt{\frac{G}{4\pi\epsilon_0}}$
(D) $\sqrt{4\pi\epsilon_0 G}$
- Q6** When the distance between the charged particles is halved, the force between them becomes
(A) One-fourth
(B) Half
(C) Double
(D) Four times
- Q7** Number of electrons in one coulomb of charge will be
(A) 5.46×10^{29}
(B) 6.25×10^{18}
(C) $1.6 \times 10^{+19}$
(D) 9×10^{11}
- Q8** The electric charge in uniform motion produce
(A) An electric field only
(B) A magnetic field only
(C) Both electric and magnetic field
(D) Neither electric nor magnetic field
- Q9** Identify the wrong statement.
(A) Charge is a vector quantity
(B) Current is a scalar quantity
(C) Charge can be quantised
(D) Charge is additive in nature.
- Q10** If a charge on the body is -1 nC , then how many number of excess electrons are present on the body?
(A) 1.6×10^{19}
(B) 6.25×10^9
(C) 6.25×10^{27}
(D) 6.25×10^{28}
- Q11** A cylindrical conductor is placed near another positively charged conductor. The net charge acquired by the cylindrical conductor will be
(A) Positive only
(B) Negative only
(C) Zero
(D) Either positive or negative



Answer Key

Q1 (B)

Q2 (A)

Q3 (C)

Q4 (C)

Q5 (D)

Q6 (D)

Q7 (B)

Q8 (C)

Q9 (A)

Q10 (B)

Q11 (C)



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