Class 12 Physics – Electrostatics (MCQs)

Electric Charges & Fields | English Medium | Bihar Board 2026

1. 1. SI unit of electric charge is: (A) Ampere (B) Coulomb (C) Volt (D) Ohm
2. 2. Like charges: (A) Attract (B) Repel (C) Neutralize (D) None
3. 3. Coulomb’s law is valid for: (A) Point charges (B) Continuous charges (C) Line charges (D) Surface charges
4. 4. Nature of electric force is: (A) Strong (B) Weak (C) Conservative (D) Nuclear
5. 5. Electric field intensity unit is: (A) N/C (B) J/C (C) C/N (D) N/J
6. 6. Electric field lines start from: (A) Negative charge (B) Positive charge (C) Neutral body (D) Any body
7. 7. Electric flux depends on: (A) Area only (B) Field only (C) Both (D) None
8. 8. SI unit of electric flux is: (A) Nm²/C (B) C/Nm² (C) N/C (D) J/C
9. 9. Gauss’s law relates electric flux with: (A) Charge (B) Mass (C) Energy (D) Force
10. 10. Electric dipole consists of: (A) Two like charges (B) Two unlike equal charges (C) One charge (D) Three charges
11. 11. Dipole moment is directed from: (A) – to + (B) + to – (C) Any direction (D) No direction
12. 12. Net charge on an electric dipole is: (A) Positive (B) Negative (C) Zero (D) Infinite
13. 13. Quantisation of charge means charge is: (A) Continuous (B) Random (C) Discrete (D) Variable
14. 14. Value of ε■ is approximately: (A) 9×10■ (B) 8.85×10■¹² (C) 1.6×10■¹■ (D) 3×10■
15. 15. Electric field inside a conductor is: (A) Maximum (B) Zero (C) Infinite (D) Variable
16. 16. Equipotential surfaces never: (A) Intersect (B) Exist (C) Touch (D) Parallel
17. 17. Work done in moving charge on equipotential surface is: (A) Maximum (B) Minimum (C) Zero (D) Infinite
18. 18. Coulomb force varies as: (A) r (B) 1/r (C) 1/r² (D) r²
19. 19. Electric potential is a: (A) Vector (B) Scalar (C) Tensor (D) None
20. 20. Unit of electric potential is: (A) Joule (B) Coulomb (C) Volt (D) Ohm