

9 Name the physical quantity whose SI unit is Volt-Coulomb:

- (a) Work (b) potential (c) current (d) charge

10. Electric wires are made up of _____ but they are covered with _____.

- (a) Conductors ,Insulators (b) Insulators , conductors
(c) Insulators, Insulators (d) conductors, conductors

11. Which of the following statements is true regarding voltmeter and ammeter?

- (a) Voltmeter is always connected in series
(b) Ammeter is always connected in series
(c) Ammeter is always connected in parallel
(d) Voltmeter and ammeter can be connected anywhere in a circuit

12. Why a battery or a cell is connected in a circuit?

- (a) To measure current (b) To maintain potential difference
(c) to measure voltage (d) to oppose current

13. For which of the following physical quantities “ampere second” can be a unit

- (a) current (b) charge (c) potential difference (d) work done

14 Two points A and B are at potentials V_1 and V_2 with $V_1 > V_2$. If they are connected by a wire, the direction of flow of current and electrons will be

- (a) Current from A to B and electrons from B to A
(b) Current from B to A and electrons from B to A
(c) Current from B to A and electrons from A to B
(d) Current from A to B and electrons from A to B

15. Which of the following represents electric potential difference?

- (a) $\frac{\text{Work done}}{\text{Current} \times \text{time}}$ (b) work done x charge
(c) $\frac{\text{Work done} \times \text{time}}{\text{Current}}$ (d) work done x charge x time

16. The resistance of an ideal ammeter should be

- (a) zero (b) low (c) high (d) infinitely high

17 A current of 1 A is drawn by a filament of an electric bulb. Number of electrons passing through a cross section of the filament in 16 seconds would be

- (a) 10^{20} (b) 10^{16} (c) 10^{18} (d) 10^{23}

18. The potential difference between two points in a circuit is measured by

- (a) Ammeter (b) Voltmeter (c) Rheostat (d) Cell

19 On which of the following electrical components + sign and – sign are not marked

- (a) Ammeter (b) Voltmeter (c) Resistor (d) Cell

20. When a person combs his hair, static electricity is sometimes generated due to

- (a) Friction between comb and hair transfers electrons
(b) Induction between comb and hair
(c) Free electrons present in comb
(d) None of the above

Acknowledgement

1) Reference: NCERT Science Text Book, Ncert Exemplar and Google web page

2) Diagrams, etc are taken from NCERT Science Text Book, Ncert Exemplar and Google web page