



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