Electric Current

- 1. A body gets positively charged by losing:
 - (A) Neutrons
 - (**B**) Electrons
- **2.** A sure test of electrification is:
 - (A) Attraction
 - (B) Repulsion
- 3. What is not true for electric charge:
 - (A) Electric charge is scalar quantity
 - (B) Charge on a body may be + ve or ve
 - (C) S.I. unit of charge is coulomb
 - (D) One coulomb is charge of one electron
- 4. All the following statements are correct except :
 - (A) A body is said to be negatively charged when it has got excess of electrons.
 - (B) When a body is charged positively, some electrons escape from it.
 - (C) The presence of moisture in the air reduces its conductivity
 - (D) None of the above
- 5. A neutral body has equal amount of:
 - (A) Both positive and negative charges
 - (B) Only positive charge
- 6. Law which gives force between two charges is:

(A) Ohm's law

(**B**) Faraday's Law

(C) Coulomb's law(D) None of these

(C) 5 joule

(**D**) 5 volt

(**D**) All of these

(C) Resistance per unit time

(C) Electric field intensity

(**D**) Potential difference

(C) Only negative charge(D) No charge at all

(C) Protons

(C) Friction

(D) Induction

(D) α -particles

- 7. A charge Q_1 exerts some force on a second charge Q_2 . If a 3rd charge Q_3 is brought near then the force of Q_1 exerted on Q_2 .
 - (A) Will increase
 - (B) Will decrease
 - (C) Will remain unchanged
 - (**D**) Will increase if Q3 is of the same sign as Q1 and will decrease if Q3 is of opposite sign.
- 8. 5 C/S is same as:
 - (A) 5 A
 - (**B**) 5 mA
- **9.** Electric current is:
 - (A) flow of charge per unit time
 - (B) work done per unit time
- **10.** The space around a charge in which some other charge experiences attraction or repulsion, is called its:

(A) Potential

- **(B)** Electric field
- **11.** Give properties of an electric charge.
- **12.** Explain charging by friction.
- **13.** Can charge be created?
- **14.** Define one Volt.
- 15. What is unit of electric work in relation to quantity of charge and potential difference?

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DPP – 1

Electric Current DPP. 1. Work done in moving a unit positive test charge from one point to another inside an electric field, is called: (A) Potential (C) Field intensity (B) Field (D) Potential difference 2. Electricity constituted by moving electric charges, is called: (A) positive electricity (C) current electricity (**B**) negative electricity (**D**) static electricity 3. The condition for an electric charge to flow from one point to other is that the two points must have electric: (A) Circuit (closed) (C) Potential difference (\mathbf{D}) (A) & (C) both are correct (B) Current **4.** Unit of potential difference is: (A) Joule/Coulomb (C) Coulomb (B) Volt (D) (A) and (B) are correct 5. Substances whose atoms have more free electrons are called: (A) Conductors (C) Electrolytes (B) Insulators (D) Semi-conductors 6. Symbol of galvanometer is: (C) Both (A) and (B) (D) Neither (A) nor (B) (A) (G) (B) ① 7. Which of the following is symbol of a cell: (C) Both (A) and (B) (D) None of these (A) ⊣⊢ (B) + 8. Which of the following is symbol of battery: (C) + (B) –|нн⊢ (D) None of these (A) ⊣⊢ 9. Electron volt is a measure of: (A) charge (C) electric potential (**B**) current (D) energy **10.** Read the following statements: Y: The resistivity of a semiconductor decreases with rise in temperature. Z: In a conducting solid, the rate of collisions between free electrons and ions increases with rise in temperature. (A) Y is true but Z is false (B) Y is false but Z is true (C) Both Y and Z are true (**D**) Y is true but Z is the correct reason for Y. 11. The work done in moving a charge of 3C between two points is 6J. What is the potential difference between the two points? 12. An object is charged positively. What will be the effect on its mass? 13. At what temperature mercury becomes super conductor? 14. Why a conducting wire does offers resistance to the flow of electron?

15. Define ohmic and non - ohmic conductor.

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- **11.** In an electric circuit, it is found that, all its elements carry same current but have different potential difference. Is it a series or parallel circuit?
- **12.** To get same potential difference across 3 resistances, connected to some cell, how will you combine them?
- 13. Draw a schematic diagram of a circuit consisting of a battery, 5 Ω , 8 Ω , 12 Ω resistances and a plug key, all connected in series.
- 14. Draw at least five possible combinations with three resistances of value R_1 , R_2 and R_3 .
- **15.** 14 C charge flows between two points which have a potential difference of 15V, find the equivalent energy.



Electric Current

 (A) we will have single pole on each piece (B) each piece will have two like poles (C) each piece will have two unlike poles (D) each piece will have two unlike poles (A) from (C) Cobalt (B) Nickel (D) Silver 3. The mineral which can attract the pieces of iron towards it is: (A) Fe₂O₃ (C) FeO (B) Fe₃O₄ (D) None of these 4. Needle of a magnetic compass always points in: (A) East direction (D) Noth of the following can lead to demagnetisation of a magnet : (A) Hammering (C) Aging (B) North west direction (D) Nolth east of a horse shoe magnet can be increased by : (A) Increasing its length (C) Keeping it at a cold place (B) Decreasing the gap between (D) None of these 7. Identify the odd one: (A) Gold (C) Iron (B) Nickel (D) Cobalt 8. The south pole of a freely suspended magnet points to the: (A) Geographical north (D) None of these 9. A magnetic compass is placed at a point near a bar magnet. Direction of magnetic field at that point will be: (A) Tangential to compass needle (B) Normal to compass needle (C) Sometimes scalar sometimes vector (D) Nothing can be said 11. Give some examples of magnetic & non-magnetic substances? 12. What is directive property of a magnet? 13. Repulsion is the surest test of magnetization, comment. 14. What do you mean by magnetic field? 	1.	When a bar magnet is broken into two pieces :		
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