

## Physics - 10th Class Physics English Medium Chapter 14 Preparation

Q1. Define unit of resistance.

**Ans 1:** When a potential of one volt is applied across the end of conductor and one ampere of current passes through it, then its resistance will be one Ohm.

Q2. Define electric current.give its formula.

**Ans 1:** The rate of flow of electric charge through any cross sectional area is called current.

Formula:  $I = Q/t$

unit: Its S.I. unit is Ampere

Q3. What is fuse?

**Ans 1:** Fuse is a safety device that is connected in series with live wire in the circuit to protect the equipments when excess of current flows.

Q4. What is galvanometer?

**Ans 1:** It is a instrument which is used to indicate the presence of current in the circuit. It is very sensitive. Its resistance is very low. It is always connected in series in the circuit.

Q5. Why does not diamond conduct electricity?

**Ans 1:** Diamond does not conduct electricity. Because it has no free electrons.

Q6. Define resistance.

**Ans 1:** The property of a substance which offers opposition to the flow of current through it is called its resistance. Its unit is Ohm

Q7. Define the time period of A.C.

**Ans 1:** The time interval after which the A.C. voltage or current repeats its value is known as its time period.

Q8. Define electromotive force.

**Ans 1:** the energy converted from non electrical forms to electrical form when one coulomb of positive charge passes through the battery.

E.m.f = Energy/Change.  
Its unit is volt(V)

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Q9. Define conventional current.

**Ans 1:** Current flowing from positive to negative terminal of a battery due to the flow of positive charges is called conventional current.

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Q10. Discuss briefly the hazards of household electricity.

**Ans 1:** The damages of the electricity for life are called electricity hazards. The voltage of 50 V or 50 mA current could be fatal for life.

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