

Electricity - Class X - Paper Set 1

- The SI unit of electric current is:
 - Volt
 - Ampere
 - Ohm
 - Watt
- Electric current is defined as:
 - Rate of flow of charge
 - Total charge in a circuit
 - Number of electrons in a conductor
 - Voltage divided by resistance
- Which device measures electric current in a circuit?
 - Voltmeter
 - Ammeter
 - Rheostat
 - Galvanometer
- The direction of electric current is taken as:
 - The direction of electron flow
 - Opposite to the flow of electrons
 - Towards the positive terminal
 - Circular in a circuit
- Ohm's law is represented by which equation?
 - $V=IR$
 - $V=I/R$
 - $V=R/I$
 - $R=I/V$
- The potential difference between two points is 1 volt if 1 joule of work is done to move a charge of:
 - 1 coulomb
 - 1 ampere
 - 1 watt
 - 1 ohm
- Which of these factors does the resistance of a conductor NOT depend on?
 - Length of the conductor
 - Area of cross-section
 - Material
 - Temperature

8. The unit of resistivity is:

- a) Ohm
- b) Ohm meter
- c) Ampere meter
- d) Volt

9. A material that allows minimal current flow is called:

- a) Conductor
- b) Insulator
- c) Semiconductor
- d) Resistor

10. The reciprocal of resistance is called:

- a) Conductance
- b) Power
- c) Energy
- d) Voltage

Answers for Set 1: 1-b, 2-a, 3-b, 4-b, 5-a, 6-a, 7-d, 8-b, 9-b, 10-a