

Q.7: It is sometimes said that an electrical appliance “uses up” electricity. What does such an appliance actually use in its operation?

Ans: An electrical appliance, in its operation, uses the kinetic energy carried by the moving electrons, and not their quantity of charge.

Q.8: Do bends in a wire affect its resistance?

Ans: No, bends in a wire do not affect its resistance, However, it depends upon length, cross sectional area, temperature and nature of the material.

Q.9: Resistances of 10Ω , 30Ω and 40Ω are connected in series. If the current in 10Ω resistance is $0.1A$, what is the current through the other?

Ans: When resistors are connected in series, then the same current flows through each of them (as there is only one path). Hence the current in this case will be $0.1A$ through all the three resistors in series.

Q.10: The resistances of different values are connected in parallel. If the p.d. across one of them is $5V$, what is the p.d. across the remaining nine resistors?

Ans: When resistors are connected in parallel, then the same p.d. exists across each of them as they all are connected to two common points. Hence the p.d. in this case will be $5V$ across all the nine resistors in parallel.

Q.11: For a given potential difference V , how will the heat developed in a resistor depend on its resistance R ? Will the heat be developed at a higher rate in a larger or smaller R .

Ans: The heat developed $H = V^2 / R \times t$.

For a constant p.d. the resistance R should be small to develop heat at a higher rate.

Q.12: Is there any electric field inside a conductor carrying an electric current? Explain motion of charges here?

Ans: When a p.d. is applied across a conductor by connecting it to a battery and electric field E is established inside a conductor (parallel to the conductor, directed from the positive toward the negative terminal). The field exists here because the battery keeps the charges moving and prevents them coming to equilibrium on the outer surface of the conductor (in contrast to the situation in electrostatics), where they would cause the net electric field on the interior to be zero.

Q.13: Can the terminal voltage of a battery be zero?

Ans: When a battery is short circuited, the existence of negligibly small resistance in the circuit makes terminal voltage zero but current to a maximum value.

$$[\text{Since } R = 0, V = 0 \text{ and } I = E/r]$$

Q.14: Why is internal resistance of a cell not constant?

Ans: The internal resistance of a cell depends upon the resistance of electrolyte, terminals and electrodes (and also on their area and separation) of the cell. Due to chemical changes (e.g. absorption of hydrogen and sulphate ions) in the electrolyte during the process of discharging the resistance of the electrolyte increases. Thus the internal resistance of a cell does not remain constant.

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