

Class 10 - Science

Electricity

Quiz -1 (1- Mark Questions)

1. Write the SI unit of Resistivity-
 - (a) ohm
 - (b) ohm-m²
 - (c) ohm-m
 - (d) none of these
2. A device used to measure electric current -
 - (a) Ammeter
 - (b) Voltmeter
 - (c) Galvanometer
 - (d) None of These
3. A charge contains electrons-
 - (a) 6×10^{18} electrons
 - (b) 1.6×10^{-19} electrons
 - (c) 1 unit electrons
 - (d) None of these
4. According to Ohm's law , graph between electric current and potential difference is always -
 - (a) A Straight line
 - (b) A curved line
 - (c) Circular
 - (d) None of these
5. Resistivity of a metallic wire depends on -

- (a) Its length
- (b) its shape
- (c) its thickness
- (d) Nature of material

6. If the current I through a resistor is increased by 100% the increased in power dissipation will be (assume temperature remain unchanged) -

- (a) 100%
- (b) 200%
- (c) 300%
- (d) 400%

7. Work done to move 1 coulomb charge from one point to another point on a Charged conductor having potential 10 volt is

- (a) 1 joule
- (b) 10 joule
- (c) zero
- (d) 100 joule

8. Name a device that helps to maintain a potential difference between across a conductor

- (a) Ammeter
- (b) Battery
- (c) Voltmeter
- (d) None of these

9. Which of the following terms does not represent electrical power in a circuit ?

- (a) I^2R
- (b) IR^2
- (c) VI
- (d) V^2/R

10. Drawback of series arrangement of resistance in a circuit -

- (a) It is easy to diagnose
- (b) Falling of one resistance will give entire circuit fall
- (c) It is less power consuming
- (d) None of these

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