

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

Ans. (c) ohm-m

2. A device used to measure electric current -

- (a) Ammeter
- (b) Voltmeter
- (c) Galvanometer
- (d) None of These

Ans. (a) Ammeter

3. A charge contains electrons-

- (a) 6×10^{18} electrons
- (b) 1.6×10^{-19} electrons
- (c) 1 unit electrons
- (d) None of these

Ans. (a) 6×10^{18} electrons

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

Ans. (a) A Straight line

5. Resistivity of a metallic wire depends on -

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

Ans. (d) Nature of material

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

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

Ans. (c) 300%

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

Ans. (b) 10 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

Ans. (b) Battery

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

Ans. (b) IR^2

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

Ans. (b) Falling of one resistance will give entire circuit fall

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