PHY102
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1. The current density J is calculated by ___

I/A

E/e

--->> All of the options

None of the options

2. Electromotive force has the same unit as

Energy

Power

Force

--->> Potential difference

3. The current per unit area flowing perpendicular to velocity of charge carriers are given by ___

J

L/ds

nqv

--->> All of the options

4. The source of electromotive force is ___

Bulb

Voltmeter

Oscillatory

--->> Generator

5. A perfect insulator has

Zero resistivity

--->> Infinite resistivity

All of these

6. The resistance of 80.0 cm of constantan wire, whose diameter of cross-section is 0. 457mm is 2.39 Ohms. Find the resistivity of constantan wire.

--->> 4.90x10-7ÃŽÂ©mn

5.60x10-7ÃŽÂ©mn

2.70x10-7ÃŽÂ©mn

6.6x10-7ÃŽÂ©mn

7. Conduction in a TV picture lube is by

--->> Electrons

Gases

Proton

Neutrons

8. Electromotive force is a measure of _____.

P.d

potential diffirence

--->> Force

none

9. Electromotive force is a measure of energy per unit

Area

Volume

--->> Charge=V/m

Current

10. The resistivity of a material is 2x10-3ÃŽÂ©m. What is the conductivityn

2ÃŽÂ©-1m-1n

--->> 0.5x103m-1ÃŽÂ©m-1n

4x10-6ÃŽÂ©-1m-1n