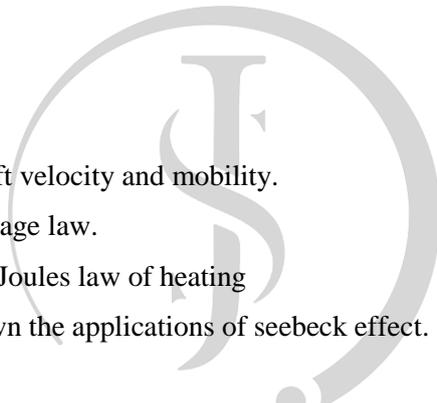


UNIT -2 – CURRENT ELECTRICITY**2 Mark Questions:**

1. Define Electric current with unit.
2. Define Current Density with unit.
3. Define Resistance of a conductor with unit.
4. Define Electrical Resistivity of a material with unit.
5. Define temperature coefficient of resistance.
6. On what factor does the resistivity of the material depends on.
7. What is superconductivity and what are superconductors?
8. Write the differences between Electric power and Electric Energy.
9. State Kirchoff's first law.
10. State Joule's law of heating.
11. What is Joule's heating effect?
12. Why Nichrome is used as heating element in heating devices?
13. What is known as Peltier effect?
14. What is known as Thomson effect?

3 Mark Questions:

1. Write the differences between drift velocity and mobility.
2. State and illustrate Kirchoffs Voltage law.
3. Explain any three applications of Joules law of heating
4. Explain seebeck effect. Write down the applications of seebeck effect.



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5 Mark Questions:

1. Describe the microscopic model of current and obtain general form of Ohm's law
2. Obtain the macroscopic form of Ohm's law from its microscopic form
3. Find out the effective resistance of resistors connected in series and parallel.
4. Determine the internal resistance of cell using voltmeter.
5. Find out the total current flowing in a circuit when n cells are connected in series and parallel.
6. Obtain the condition for bridge balancing in case of Wheatstone bridge.
7. How will you measure the resistance and specific resistance by using Meter bridge.
8. Explain the principle of potentiometer.
9. How will you compare the emf of two cells by using a potentiometer.
10. Determine the internal resistance of cell using potentiometer.



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