

**SIR CV RAMAN COACHING CENTRE IDAPPADI,SALEM – 2024**

**XLL PHYSICS – MODEL QUESTION PAPER**

**LESSON 1 TO 3**

**Date : 26.05.2024**

**Short answer questions**

1. What is meant by quantisation of charges?
2. Derive an expression for the torque experienced by a dipole due to a uniform electric field.
3. Distinguish between drift velocity and mobility
4. State microscopic form of Ohm's law.
5. State macroscopic form of Ohm's law.
6. What are ohmic and non ohmic devices?
7. Define electrical resistivity.
8. properties ferro magnetic materials
9. Write a short note on superconductors?
10. What is electric power and electric energy?
11. Derive the expression for power  $P=VI$  in electrical circuit.
12. Write down the various forms of expression for power in electrical circuit.
13. State Kirchhoff's current rule.
14. State Kirchhoff's voltage rule.
15. State the principle of potentiometer.
16. What do you mean by internal resistance of a cell?

17. State Joule's law of heating.
18. What is Seebeck effect?
19. What is Thomson effect?
20. What is Peltier effect?
21. State the applications of Seebeck effect
22. Define magnetic dipole moment.
23. State corona discharge
24. State Fleming's left hand rule.
25. Define ampere

**prepared by**

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