

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

**Attempt (Any Five) Questions.**

1. a) Define the terms; Electric current, voltage, power and energy. [8]  
b) Define Resistor and capacitor. What will be the current drawn by a lamp rated at 250v, 40 watts connected to a 230v supply? [4+4]
2. a) State and prove Ohm's law with suitable example. [8]  
b) The effective resistance of two resistors connected in series is  $100\Omega$ . When connected in parallel the effective value is  $24\Omega$ . Determine the values of the two resistors. [8]
3. a) Differentiate between Dia, para and ferro-magnetic material. [8]  
b) Derive series and parallel connection of capacitor. [8]
4. a) Define magnetic field and magnetic flux. Also explain the hysteresis loop for magnetic material. [8]  
b) Derive the energy stored in current carrying inductor. [8]
5. a) What is Lenz's law? Explain dynamically induced emf and statistically induced emf. [10]  
b) Explain in detail about Faraday's laws of Electromagnetic induction. [6]
6. Write short notes on : (Any Four) [4x4=16]
  - a) resistance and its variation with temperature
  - b) Electrostatic induction phenomena.
  - c) KVL circuit
  - d) Faraday's law of electrolysis
  - e) Lead acid cell
  - f) Soft and hard magnetic material

Good luck !

# Diploma First Semester Electrical Questions Paper

**B Lingard**



**Diploma First Semester Electrical Questions Paper:**

## **Diploma First Semester Electrical Questions Paper** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Diploma First Semester Electrical Questions Paper**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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