

**Council for Technical Education and Vocational Training**  
**Office of the Controller of Examinations**  
 Sanothimi, Bhaktapur  
**Regular/Back Exam-2074, Shrawan/Bhadra**

<b>Program:</b>	Diploma in Computer and Information Technology	<b>Full Marks:</b> 80
<b>Year/Part:</b>	I/II [New Course]	<b>Pass Marks:</b> 32
<b>Subject:</b>	Electrical Engineering	<b>Time:</b> 3.00 hrs

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. Define (Any Five) [5x2=10]

- |                   |                     |                    |
|-------------------|---------------------|--------------------|
| i) Magnetic field | iii) Flux density   | v) Frequency       |
| ii) Magnetic flux | iv) Field intensity | vi) Electric power |
- b) Define and explain Faraday law of electro-magnetic induction. [6]

2. a) State and explain Ohm's law with suitable example. [5]

b) Determine the current flowing through  $3\Omega$  resistor in the network shown below using Thevenin's theorem. [6]



c) State and explain superposition theorem. [5]

3. a) Using nodal analysis, write down node voltage equation for the circuit to find the current through  $25\Omega$  branch. [5]



b) An alternating current  $i$  is given by  $i = 141.4 \sin 314t$ . Find i) The Maxim Value [4]

- ii) Frequency  
 iii) Time period  
 iv) Instantaneous Value when  $t$  is 3ms

c) A battery of 24V is applied across terminal AB of the circuit shown in figure below. Find. [6]

i) The current in  $2\Omega$  resistor ii) Voltage across  $6\Omega$  resistor.



4. a) Explain the construction and working principle of single phase transformer. [8]

b) Explain the construction and principle of  $3\phi$  induction motor in brief. [4+4=8]

5. a) A coil of resistance  $100\Omega$  and inductance  $100H$  is connected in series with a  $100F$  capacitor. The circuit is connected to a  $10V$  variable frequency supply. Calculate: [6]

- i) the resonance frequency  
 ii) Current at resonance  
 iii) Voltage across L and C at resonance.  
 iv) Q factor of the circuit.

b) What are the advantages of  $3\phi$  system? Explain about the star and delta connection of  $3\phi$  system. [3+5=8]

6. Write short notes on: (Any Four) [4x4=16]

- |   |                                    |
|---|------------------------------------|
| a) Hysteresis loop                        | b) Dry cell                        |
| c) Series and parallel connection of cell | d) Resonance in RLC series circuit |
| e) Single phase AC motor                  |                                    |

**Good Luck!**

# Diploma In Electrical Question Paper 2nd Sem

**LL Leslie**



**Diploma In Electrical Question Paper 2nd Sem:**

## **Diploma In Electrical Question Paper 2nd Sem** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Diploma In Electrical Question Paper 2nd Sem**," 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 will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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