

**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: 80</b>
<b>Year/Part:</b>	I/II [New Course]	<b>Pass Marks: 32</b>
<b>Subject:</b>	Electrical Engineering	<b>Time: 3.00 hrs</b>

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

**DP Hallahan**



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## **Table of Contents Diploma In Electrical Question Paper 2nd Sem**

1. Understanding the eBook Diploma In Electrical Question Paper 2nd Sem
  - The Rise of Digital Reading Diploma In Electrical Question Paper 2nd Sem
  - Advantages of eBooks Over Traditional Books
2. Identifying Diploma In Electrical Question Paper 2nd Sem
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Diploma In Electrical Question Paper 2nd Sem
  - User-Friendly Interface
4. Exploring eBook Recommendations from Diploma In Electrical Question Paper 2nd Sem
  - Personalized Recommendations
  - Diploma In Electrical Question Paper 2nd Sem User Reviews and Ratings
  - Diploma In Electrical Question Paper 2nd Sem and Bestseller Lists
5. Accessing Diploma In Electrical Question Paper 2nd Sem Free and Paid eBooks

- Diploma In Electrical Question Paper 2nd Sem Public Domain eBooks
  - Diploma In Electrical Question Paper 2nd Sem eBook Subscription Services
  - Diploma In Electrical Question Paper 2nd Sem Budget-Friendly Options
6. Navigating Diploma In Electrical Question Paper 2nd Sem eBook Formats
- ePub, PDF, MOBI, and More
  - Diploma In Electrical Question Paper 2nd Sem Compatibility with Devices
  - Diploma In Electrical Question Paper 2nd Sem Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Diploma In Electrical Question Paper 2nd Sem
  - Highlighting and Note-Taking Diploma In Electrical Question Paper 2nd Sem
  - Interactive Elements Diploma In Electrical Question Paper 2nd Sem
8. Staying Engaged with Diploma In Electrical Question Paper 2nd Sem
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Diploma In Electrical Question Paper 2nd Sem
9. Balancing eBooks and Physical Books Diploma In Electrical Question Paper 2nd Sem
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Diploma In Electrical Question Paper 2nd Sem
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Diploma In Electrical Question Paper 2nd Sem
- Setting Reading Goals Diploma In Electrical Question Paper 2nd Sem
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Diploma In Electrical Question Paper 2nd Sem
- Fact-Checking eBook Content of Diploma In Electrical Question Paper 2nd Sem
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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