

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

Program: Diploma in Computer and Information Technology Full Marks: 80
Year/Part: III [New Course] Pass Marks: 32
Subject: Electrical Engineering Time: 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.

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

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



3. a) State and explain superposition theorem. [5]

- b) Using nodal analysis, write down node voltage equation for the circuit to find the current through 25Ω branch. [5]



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

- i) The Maximum Value

- 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 2Ω resistor ii) Voltage across 6Ω resistor.



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

- b) Explain the construction and principle of 3Φ Induction motor in brief. [4+4=8]

5. a) A coil of resistance 100Ω and inductance 100H is connected in series with a 100F capacitor. The circuit is connected to a 10V variable frequency supply. Calculate: 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 3Φ system? Explain about the star and delta connection of 3Φ 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) Full and half wave rectifiers

- f) Single phase AC motor

Good Luck!

Diploma In Electrical Question Paper 2nd Sem

Robert R. Redfield

Diploma In Electrical Question Paper 2nd Sem:

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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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