

## Regular/Back/Special Exam-2080, Mangsir/Poursh

Program: Diploma in IT Engineering

Full Marks: 80

Year/Part: I/II (2016)

Pass Marks: 32

Subject: Electrical Engineering

Time: 3 hrs.

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



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Attempt Any Five questions.

1. a) Define the terms: i) Current ii) Voltage [4x2=8]  
iii) Power iv) Energy
- b) State and explain Faraday's law of electromagnetic induction. [4]
- c) State and explain KVL with example. [4]
2. a) Using node voltage method find the current in the  $3\Omega$  resistor. [8]



- b) Using Thevenin's theorem calculate the current through  $4\Omega$  resistor. [8]



3. a) What do you mean by transformer? Explain the working principle of single phase transformer. [8]
- b) Explain the construction and working principle of  $3\phi$  induction motor in brief. [8]



# Diploma In Electrical Question Paper 2nd Sem

**Ying Liu**



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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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