QUESTION 1: NETWORK THEORY

Use Kirchhoff's law to calculate the current flowing through the load resistor (RL) in FIGURE 1.



FIGURE 1

[10]

QUESTION 2: ALTERNATING CURRENT THEORY

Consider the circuit DIAGRAM shown in FIGURE 2 and calculate the following:

2.1 The total impedance of the circuit

(4)

2.2 The current in each branch

(6)



[10]

QUESTION 3: SEMI-CONDUCTORS AND POWER SUPPLY

3.1 Calculate the forward resistance of a diode if it conducts at 0,15 mA at a room temperature of 30 °C.

(3)

3.2 Choose the correct word from the options given within brackets. A zener diode must be connected in (forward/reverse) bias when used as a regulator and a junction diode must be connected in (forward/reverse) bias when used as a rectifier in a circuit.

(23)

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Table of Contents Question Papers Industrial Electronics N4

- 1. Understanding the eBook Question Papers Industrial Electronics N4
 - The Rise of Digital Reading Question Papers Industrial Electronics N4
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Question Papers Industrial Electronics N4
 - 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 Question Papers Industrial Electronics N4
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Question Papers Industrial Electronics N4
 - Personalized Recommendations
 - Question Papers Industrial Electronics N4 User Reviews and Ratings
 - Question Papers Industrial Electronics N4 and Bestseller Lists
- 5. Accessing Question Papers Industrial Electronics N4 Free and Paid eBooks
 - Question Papers Industrial Electronics N4 Public Domain eBooks
 - Question Papers Industrial Electronics N4 eBook Subscription Services
 - Question Papers Industrial Electronics N4 Budget-Friendly Options

- 6. Navigating Question Papers Industrial Electronics N4 eBook Formats
 - o ePub, PDF, MOBI, and More
 - Question Papers Industrial Electronics N4 Compatibility with Devices
 - Question Papers Industrial Electronics N4 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Question Papers Industrial Electronics N4
 - Highlighting and Note-Taking Question Papers Industrial Electronics N4
 - Interactive Elements Question Papers Industrial Electronics N4
- 8. Staying Engaged with Question Papers Industrial Electronics N4
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Question Papers Industrial Electronics N4
- 9. Balancing eBooks and Physical Books Question Papers Industrial Electronics N4
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Question Papers Industrial Electronics N4
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Question Papers Industrial Electronics N4
 - Setting Reading Goals Question Papers Industrial Electronics N4
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Question Papers Industrial Electronics N4
 - Fact-Checking eBook Content of Question Papers Industrial Electronics N4
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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