

QUESTION 1: NETWORK THEORY

Use Kirchhoff's law to calculate the current flowing through the load resistor (R_L) 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)**FIGURE 2****[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.

(2)

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Table of Contents Industrial Electronics N4 Previous Question Papers

1. Understanding the eBook Industrial Electronics N4 Previous Question Papers
 - The Rise of Digital Reading Industrial Electronics N4 Previous Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Industrial Electronics N4 Previous Question Papers
 - 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 Industrial Electronics N4 Previous Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Industrial Electronics N4 Previous Question Papers
 - Personalized Recommendations
 - Industrial Electronics N4 Previous Question Papers User Reviews and Ratings
 - Industrial Electronics N4 Previous Question Papers and Bestseller Lists
5. Accessing Industrial Electronics N4 Previous Question Papers Free and Paid eBooks
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- 6. Navigating Industrial Electronics N4 Previous Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Industrial Electronics N4 Previous Question Papers Compatibility with Devices
 - Industrial Electronics N4 Previous Question Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Industrial Electronics N4 Previous Question Papers
 - Highlighting and Note-Taking Industrial Electronics N4 Previous Question Papers
 - Interactive Elements Industrial Electronics N4 Previous Question Papers
- 8. Staying Engaged with Industrial Electronics N4 Previous Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Industrial Electronics N4 Previous Question Papers
- 9. Balancing eBooks and Physical Books Industrial Electronics N4 Previous Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Industrial Electronics N4 Previous Question Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Industrial Electronics N4 Previous Question Papers
 - Setting Reading Goals Industrial Electronics N4 Previous Question Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Industrial Electronics N4 Previous Question Papers
 - Fact-Checking eBook Content of Industrial Electronics N4 Previous Question Papers
 - 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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