

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 Digital Electronics N4 Question Papers And Memo

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

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