#### 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.

(2)

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- 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

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  - Highlighting and Note-Taking Industrial Electronics N4 Previous Question Papers
  - Interactive Elements Industrial Electronics N4 Previous Question Papers
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  - o 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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