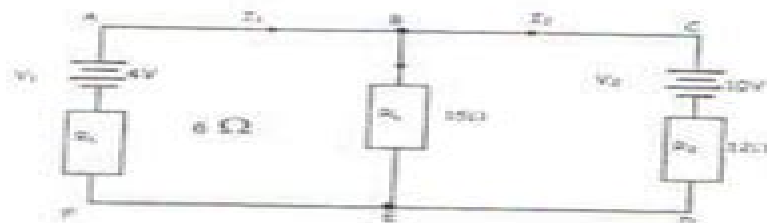


**QUESTION 1: NETWORK THEORY**

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

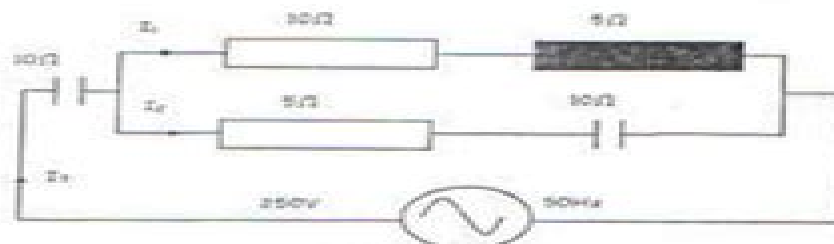
**FIGURE 1****[10]****QUESTION 2: ALTERNATING CURRENT THEORY**

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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## November

**Emilie Sanchez**



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## **Table of Contents Industrial Electronics N4 Question Papers 2012 November**

1. Understanding the eBook Industrial Electronics N4 Question Papers 2012 November
  - The Rise of Digital Reading Industrial Electronics N4 Question Papers 2012 November
  - Advantages of eBooks Over Traditional Books
2. Identifying Industrial Electronics N4 Question Papers 2012 November
  - 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 Question Papers 2012 November
  - User-Friendly Interface
4. Exploring eBook Recommendations from Industrial Electronics N4 Question Papers 2012 November
  - Personalized Recommendations

- Industrial Electronics N4 Question Papers 2012 November User Reviews and Ratings
- Industrial Electronics N4 Question Papers 2012 November and Bestseller Lists
- 5. Accessing Industrial Electronics N4 Question Papers 2012 November Free and Paid eBooks
  - Industrial Electronics N4 Question Papers 2012 November Public Domain eBooks
  - Industrial Electronics N4 Question Papers 2012 November eBook Subscription Services
  - Industrial Electronics N4 Question Papers 2012 November Budget-Friendly Options
- 6. Navigating Industrial Electronics N4 Question Papers 2012 November eBook Formats
  - ePub, PDF, MOBI, and More
  - Industrial Electronics N4 Question Papers 2012 November Compatibility with Devices
  - Industrial Electronics N4 Question Papers 2012 November Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Industrial Electronics N4 Question Papers 2012 November
  - Highlighting and Note-Taking Industrial Electronics N4 Question Papers 2012 November
  - Interactive Elements Industrial Electronics N4 Question Papers 2012 November
- 8. Staying Engaged with Industrial Electronics N4 Question Papers 2012 November
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Industrial Electronics N4 Question Papers 2012 November
- 9. Balancing eBooks and Physical Books Industrial Electronics N4 Question Papers 2012 November
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Industrial Electronics N4 Question Papers 2012 November
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Industrial Electronics N4 Question Papers 2012 November
  - Setting Reading Goals Industrial Electronics N4 Question Papers 2012 November
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Industrial Electronics N4 Question Papers 2012 November
  - Fact-Checking eBook Content of Industrial Electronics N4 Question Papers 2012 November

- 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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