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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Dirk Frederik Christiaan Kruger

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 - The Rise of Digital Reading Industrial Electronics N4 Question Paper 2014 August
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Industrial Electronics N4 Question Paper 2014 August
 - 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 Paper 2014 August
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Industrial Electronics N4 Question Paper 2014 August
 - Personalized Recommendations
 - ∘ Industrial Electronics N4 Question Paper 2014 August User Reviews and Ratings
 - Industrial Electronics N4 Question Paper 2014 August and Bestseller Lists
- 5. Accessing Industrial Electronics N4 Question Paper 2014 August Free and Paid eBooks
 - Industrial Electronics N4 Question Paper 2014 August Public Domain eBooks
 - Industrial Electronics N4 Question Paper 2014 August eBook Subscription Services
 - o Industrial Electronics N4 Question Paper 2014 August Budget-Friendly Options

- 6. Navigating Industrial Electronics N4 Question Paper 2014 August eBook Formats
 - o ePub, PDF, MOBI, and More
 - Industrial Electronics N4 Question Paper 2014 August Compatibility with Devices
 - Industrial Electronics N4 Question Paper 2014 August Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Industrial Electronics N4 Question Paper 2014 August
 - Highlighting and Note-Taking Industrial Electronics N4 Question Paper 2014 August
 - Interactive Elements Industrial Electronics N4 Question Paper 2014 August
- 8. Staying Engaged with Industrial Electronics N4 Question Paper 2014 August
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - \circ Following Authors and Publishers Industrial Electronics N4 Question Paper 2014 August
- 9. Balancing eBooks and Physical Books Industrial Electronics N4 Question Paper 2014 August
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Industrial Electronics N4 Question Paper 2014 August
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Industrial Electronics N4 Question Paper 2014 August
 - Setting Reading Goals Industrial Electronics N4 Question Paper 2014 August
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Industrial Electronics N4 Question Paper 2014 August
 - Fact-Checking eBook Content of Industrial Electronics N4 Question Paper 2014 August
 - 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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