

SECTION A

QUESTION 1

1.1 Indicate whether the following statements are TRUE or FALSE. Choose the correct answer and make a cross (X) in the appropriate block next to the question number on the attached answer sheet.

- 1.1.1 Direct coupling is normally associated with low-frequency applications. (1)
- 1.1.2 An inductor is connected in parallel with a capacitor. If the inductance is doubled, and the capacitance is halved, the impedance at resonance will be doubled. (1)
- 1.1.3 The equation: $V_1 = I_1 R_1 + (I_1 - I_2) R_2 + I_2 R_3$ is an example of Kirchhoff's voltage law. (1)
- 1.1.4 Transition capacitance occurs when a PN junction is forward biased. (1)
- 1.1.5 In a capacitor the frequency is directly proportional to the capacitive reactance. (1)
- 1.1.6 The output frequency of a full-wave voltage doubler is half the supply frequency. (1)
- 1.1.7 There are two types of metal-oxide semiconductor field effect transistors, namely depletion and enhancement MOSFETs. (1)
- 1.1.8 An operational amplifier has a low input impedance. (1)
- 1.1.9 Atoms with more than four valence electrons are conductors. (1)
- 1.1.10 An SCR can also be called a thyristor. (1)

[10]

1.2 Various possible options are provided as answers to the following questions. Choose the correct answer and write only the letter (A - D) next to the question number (1.2.1 - 1.2.6) on the attached answer sheet.

1.2.1 In the circuit shown in FIGURE 1 on the DIAGRAM SHEET, the vertical and horizontal components of the current I is:

- A $I_{\text{vertical}} = 10A$ and $I_{\text{horizontal}} = 10A$.

- B $I_{\text{vertical}} = 7,314A$ and $I_{\text{horizontal}} = 8,825A$.
- C $I_{\text{vertical}} = 8,825A$ and $I_{\text{horizontal}} = 7,314A$.
- D $I_{\text{vertical}} = 2,685A$ and $I_{\text{horizontal}} = 2,18A$.

1.2.2 The method used to switch an SCR off in a DC circuit

- A Cyclic control
- B Phase control
- C Forced commutation
- D Cycle control

1.2.3 If the frequency of the voltage applied to a capacitor is increased then

- A its reactance will fall
- B its reactance will rise
- C the current through the capacitor will fall
- D the current through the capacitor will remain unchanged

1.2.4 A phototransistor switches on when the is (are) exposed to light.

- A Base-emitter junction
- B Base-collector junction
- C Base-emitter and base-collector junctions
- D Base-emitter or base-collector junctions

1.2.5 Errors that occur as a result of unknown factors are called

- A Random errors
- B Gross errors
- C Instrumental errors
- D Environmental errors

1.2.6 The following transducers do not require any external power

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Table of Contents **Industrial Electronic N3 Previous Question Papers**

1. Understanding the eBook **Industrial Electronic N3 Previous Question Papers**
 - The Rise of Digital Reading **Industrial Electronic N3 Previous Question Papers**
 - Advantages of eBooks Over Traditional Books
2. Identifying **Industrial Electronic N3 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 Electronic N3 Previous Question Papers**
 - User-Friendly Interface
4. Exploring eBook Recommendations from **Industrial Electronic N3 Previous Question Papers**
 - Personalized Recommendations
 - **Industrial Electronic N3 Previous Question Papers** User Reviews and Ratings
 - **Industrial Electronic N3 Previous Question Papers** and Bestseller Lists

5. Accessing Industrial Electronic N3 Previous Question Papers Free and Paid eBooks
 - Industrial Electronic N3 Previous Question Papers Public Domain eBooks
 - Industrial Electronic N3 Previous Question Papers eBook Subscription Services
 - Industrial Electronic N3 Previous Question Papers Budget-Friendly Options
6. Navigating Industrial Electronic N3 Previous Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Industrial Electronic N3 Previous Question Papers Compatibility with Devices
 - Industrial Electronic N3 Previous Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Industrial Electronic N3 Previous Question Papers
 - Highlighting and Note-Taking Industrial Electronic N3 Previous Question Papers
 - Interactive Elements Industrial Electronic N3 Previous Question Papers
8. Staying Engaged with Industrial Electronic N3 Previous Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Industrial Electronic N3 Previous Question Papers
9. Balancing eBooks and Physical Books Industrial Electronic N3 Previous Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Industrial Electronic N3 Previous Question Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Industrial Electronic N3 Previous Question Papers
 - Setting Reading Goals Industrial Electronic N3 Previous Question Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Industrial Electronic N3 Previous Question Papers
 - Fact-Checking eBook Content of Industrial Electronic N3 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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