

## 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 Electronics Question Papers N3**

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

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