

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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