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: $V_T = I_1R_1 + (I_T-I_1)R_2 - I_2R_3$ 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 - 1.2.9) 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 $I_{VERTICAL}$ = 10A and $I_{HORIZONTAL}$ = 10A.

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B $I_{VERTICAL}$ = 7,314A and $I_{HORIZONTAL}$ = 6,829A.

C $I_{VERTICAL}$ = 6,829A and $I_{HORIZONTAL}$ = 7,314A.

D $I_{VERTICAL}$ = 2,588A and $I_{HORIZONTAL}$ = 3,15A.

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

A Cyclotronic 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 photostransistor 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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Jiyuan Zhang

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