

## QUESTION 6: ELECTRONIC POWER CONTROL

- 6.1 Draw a neat, labelled circuit diagram of how a QUADRAC can be used to control the speed of a small AC motor. (2)
- 6.2 State TWO advantages of an SCR. (2)
- 6.3 What is the purpose of a diode in the gate of an SCR? (1)
- 6.4 An LASCR is a conventional SCR that may be turned off by incident light falling upon the gate. (TRUE/FALSE)? (1)
- 6.5 A TRIAC can be used to control AC flow on a (half-wave/full-wave) basis. (1)
- 6.6 Draw a neat characteristic curve of a DIAC and state ONE of its main uses. (2)
- TOTAL: 10**

## QUESTION 7: TRANSDUCERS

- 7.1 State THREE important requirements for the reliable operation of a transducer. (3)
- 7.2 Explain, with the aid of a neat, labelled circuit diagram, how stress or strain on a strain gauge is measured by a Wheatstone bridge. (2)
- 7.3 What is the purpose of the compensating gauge in a strain gauge? (1)
- TOTAL: 6**

## QUESTION 8: TESTING EQUIPMENT

- 8.1 Calculate the width of one cycle of the sine wave if the frequency is 20 kHz in an oscilloscope at the scale setting of 50  $\mu\text{s/cm}$ . (2)
- 8.2 Draw a neat block diagram of a basic function generator. (2)
- 8.3 The cathode-ray tube is an important component of both the CRO and the television receiver. (TRUE/FALSE)? (1)
- TOTAL: 5**

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## QUESTION 9: NETWORK THEORY

SHORT CIRCUIT  $V_1$ 

$$R_1 = \frac{10 \times 150}{10 + 150} + 1$$

$$= 14,285 \Omega$$

$$I_{sc} = \frac{V_1}{R_1}$$

$$= \frac{100}{14,285}$$

$$= 6,997 \text{ A}$$

$$V_p = I_s \times R_p$$

$$= 6,997 \times 9,375$$

$$= 65,222 \text{ V}$$

$$I_{sc} = \frac{V_p}{R_s}$$

$$= \frac{65,222}{10}$$

$$= 6,522 \text{ A}$$

$$I_{sc} = I_{sc1} + I_{sc2}$$

$$= 6,997 + 6,522$$

$$= 13,519 \text{ A}$$

SHORT CIRCUIT  $V_2$ 

$$R_1 = \frac{1 \times 150}{1 + 150} + 20$$

$$= 14,859 \Omega$$

$$I_{sc} = \frac{V_2}{R_1}$$

$$= \frac{100}{14,859}$$

$$= 6,730 \text{ A}$$

$$V_p = I_s \times R_p$$

$$= 6,730 \times 4,375$$

$$= 29,224 \text{ V}$$

$$I_{sc} = \frac{V_p}{R_s}$$

$$= \frac{29,224}{3}$$

$$= 9,741 \text{ A}$$

$$I_{sc} = I_{sc1} + I_{sc2}$$

$$= 6,730 + 9,741$$

$$= 16,471 \text{ A}$$

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