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Sem: 7th

Date:

Sec: A & B

Duration: 10min

Power Electronics Quiz Questions on Thyristors

1. A Thyristors (SCR) is a

- a) P-N-P device
- b) N-P-N device
- c) P-N-P-N device
- d) P-N device

Answer: c

2. Which terminal does not belong to the SCR?

- a) Anode
- b) Gate
- c) Base
- d) Cathode

Answer: c

3. An SCR is a

- a) four layer, four junction device
- b) four layer, three junction device
- c) four layer, two junction device
- d) three layer, single junction device

Answer: b

4. Choose the false statement.

- a) SCR is a bidirectional device
- b) SCR is a controlled device
- c) In SCR the gate is the controlling terminal
- d) SCR are used for high-power applications

Answer: a

5. In the SCR structure the gate terminal is located

- a) near the anode terminal
- b) near the cathode terminal
- c) in between the anode & cathode terminal
- d) none of the mentioned

Answer: b

6. The static V-I curve for the SCR is plotted for

- a) I_a (anode current) vs I_g (gate current), V_a (anode – cathode voltage) as a parameter
- b) I_a vs V_a with I_g as a parameter
- c) V_a vs I_g with I_a as a parameter
- d) I_g vs V_g with I_a as a parameter

Answer: b

7. If the cathode of an SCR is made positive with respect to the anode & no gate current is applied then

- a) all the junctions are reversed biased
- b) all the junctions are forward biased
- c) only the middle junction is forward biased
- d) only the middle junction is reversed biased

Answer: c

8. For an SCR in the reverse blocking mode, (practically)

- a) leakage current does not flow
- b) leakage current flows from anode to cathode
- c) leakage current flows from cathode to anode
- d) leakage current flows from gate to anode

Answer: c

9. With the anode positive with respect to the cathode & the gate circuit open, the SCR is said to be in the

- a) reverse blocking mode
- b) reverse conduction mode
- c) forward blocking mode
- d) forward conduction mode

Answer: c

10. For an SCR in the forward blocking mode (practically)

- a) leakage current does not flow
- b) leakage current flows from anode to cathode
- c) leakage current flows from cathode to anode
- d) leakage current flows from gate to anode

Answer: b

Signature of Staff

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