

Time : 3 Hours

Total Marks : 80

Min. Passing Marks : 24

Instructions to Candidates :

Attempt any five questions selecting one question from each unit. All questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

UNIT-I

1. (a) Draw and explain the characteristics of MOSFET. [8]
(b) Explain the two transistor model of SCR. [8]

OR

1. (a) Draw & explain the characteristics of IGBT. [8]
(b) Differentiate between SCR and GTO. [8]

UNIT-II

2. (a) A 230V, 50Hz, one pulse SCR controlled converter is triggered at a firing angle of 40° and the load current extinguishes at an angle of 210° . Find the
(i) Average output voltage
(ii) Average load current [8]
(b) Explain the single phase asymmetrical converter with suitable waveforms. Determine the average output voltage formula. [8]

OR

2. (a) Explain the 180° mode of voltage source inverter. [8]
(b) Describe the voltage control techniques in inverter. [8]

UNIT-III

3. (a) A DC Chopper has a resistive load of 20Ω and input voltage $V_s = 220V$. When the chopper is on, its voltage drop is 1.5V and chopping frequency is 10 kHz. If duty cycle is 80%, determine the average output voltage, rms output voltage and chopper on time. [8]
(b) Explain the step up chopper. [8]

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