

- Q-3 Attempt all questions (14)**
(A) Explain the construction of Thyristor and explain its static V-I characteristics. (7)
(B) List the various methods for thyristor turn on. Explain any one of them. (7)
- Q-4 Attempt all questions (14)**
(A) Explain the construction and working of Triac. (7)
(B) Briefly explain UJT. (7)
- Q-5 Attempt all questions (14)**
(A) List various firing scheme for SCR. Explain any one of them. (7)
(B) List the types of DC to DC converter. Explain any one of them. (7)
- Q-6 Attempt all questions (14)**
(A) Draw the circuit diagram of half wave controlled rectifier for resistive load. Draw the waveforms of supply voltage, load current and load voltage. (7)
(B) Explain the operation of single pole semi controlled rectifier for resistive load. (7)
- Q-7 Attempt all questions (14)**
(A) Explain the operation of single phase AC voltage controller using any one method of usual practice. (7)
(B) Explain the operation of single phase cycloconverter for resistive load. (7)
- Q-8 Attempt all questions (14)**
(A) Explain the operation of single phase full bridge inverter for resistive load. (7)
(B) Explain the 120 degree operation of three phase full bridge inverter for resistive load. (7)

