- 1) Why is SCR not preferred for inverters?
- 2) Differentiate current source inverter and voltage source inverter.
- 3) State the condition to be satisfied in the selection of L and C in a series inverter.
- 4) Compare AC voltage controller with cycloconverter.
- 5) Define Amplitude Modulation Index.
- 6) Why heat sink and cooling arrangements are employed for power switching devices?
- 7) Compare thermal failure with electrical failure.
- 8) What are the conditions for over current fault?
- 9) Mention the two types of selenium voltage limiter.
- 10) State the necessity of heat sink.
- 1. With neat sketch explain the 180 degree mode of conduction of an inverter
- 2. Explain the Voltage control methods of Inverters in detail.
- 3. Compare Multiple PWM with sinusoidal PWM.
- 1. Explain single phase bidirectional AC voltage controller with RL Load.
- 2. Explain the operation of step up bridge type cycloconverter.
- 3. Give the effects of harmonics present in the inverter system. Write the methods to reduce the harmonic content.
- 1. Explain in detail the over voltage conditions of power electronic devices.
- 2. Explain the various thyristor mounting techniques in detail.
- 3. Explain the heat transfer process in thyristor.
- 1. Design the snubber network for ac circuit
- 2. Design the snubber network for dc circuit.
- 3. To provide reliable dv/dt protection to an SCR used in a single phase fully controlled bridge, compute the required parameters for a snubber circuit. The SCR has maximum dv/dt capability of 50V/µs. the input line-to-line voltage has a peak value 380V and the source inductance is 0.1mH.