

Sample Question Paper

Course Name : Electrical Engineering Group
Course Code : EE/EP
Semester : Sixth
Subject Title : Power Electronics and Drives
Marks : 100

12232**Time: 3 Hrs.****Instructions:**

1. All questions are compulsory
2. Illustrate your answers with neat sketches wherever necessary
3. Figures to the right indicate full marks
4. Assume suitable data if necessary
5. Preferably, write the answers in sequential order

Q.1 A) Attempt any THREE of the following:**12 Marks**

- a) Describe the construction of SCR with neat sketch also draw it's symbol.
- b) State & explain the specification of SCR.
- c) List the factors required for selection of heat sink used for SCR.
- d) Draw and explain the characteristics of SCR.

Q.1 B) Attempt any ONE of the following:**06 Marks**

- a) Describe the step up and step down chopper with neat diagram.
- b) Explain with waveforms the constant & variable frequency system for chopper control.

Q.2 Attempt any FOUR of the following:**16 Marks**

- a) Draw circuit diagram of single phase fully controlled Full wave converter with RL load & explain it's working.
- b) What is the effect of source impedance on performance of 1 phase fully controlled bridge converter?
- c) Draw circuit diagram 3 phase fully controlled bridge converter with R-L load.
- d) Differentiate between single and three phase controlled converter on the basis of no. of SCR, current capacity, application and cost.
- e) Draw neat diagram of cyclo-converter for speed control of 3 phase induction motor.
- f) Describe the operation of speed controls of 3 phase induction motor using variable frequency variable voltage method.

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