

B.Tech.(6th sem) main/Back Examination – 2009

Electronics and Communication Engineering

Industrial Electronics

Unit – 1

1. a) Describe the reverse recovery characteristic of power diode and derive expression of reverse recovery time.
a) Compare power MOSFETs with BJTs.

OR

- a) Describe switching characteristic of power MOSFETs.
- b) Explain the working of Traic with characteristic.

Unit – 2

2. a) A single phase bridge converter is connected to RLE load. For continuous load current draw the source voltage output voltage Load current, source current waveforms as a function of time.
b) A single phase full bridge converter supplies power to RLE load. The Source voltage is 230V, 50Hz and for load $R=2\Omega$, $L=10\text{mH}$ $E=100\text{V}$ for a firing angle of 30° , find the average value of output current and output voltage when load current extinguishes at 200° angle.

OR

- a) Draw and explain load voltage and current waveform for single phase bridge inverter with R-L load.
- b) Explain working and waveform of single phase current source inverter with ideal switches.

Unit-3

3. a) What is a dc chopper? Describe the various types of chopper configuration with appropriate diagrams.
b) A set up chopper has input voltage of 220V and output voltage of 660V, if the non-conducting time of thyristor -chopper is 100s, compute the pulse width of output voltage.

OR

- a) Explain the working of buck-boost converter.
- b) Explain switch mode power supply.

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