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EC-5005 (3) (CBGS)

B.E. V Semester

Examination, November 2018

Choice Based Grading System (CBGS) **Industrial Electronics**

Time: Three Hours

Maximum Marks: 70

Attempt any five questions. Note: i)

- ii) All questions carry equal marks.
- iii) Assume suitable data if needed.

l.	a)	Describe switched regulator (SMPS).	
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- b) Describe rectifiers (Half wave, Full wave).

Give the principle of operation of SCR and give various turn-on methods.

- How SCR adopted for over voltage protection.
- Differentiate between Power MOSFET and IGBT.
 - Describe Triacs and Diacs.
- a) How OP-AMP used in power supplies.
 - Describe Wien bridge oscillator, function generator. 7
- What are factors to be considered in selecting PLC and what are advantages of PLC.
 - b) Give functional block diagram of PLC.

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6.	a)	Give simple process control applications of PLC.	7
	b)	Describe switch mode converter (buck, boost).	7
7.	a)	Describe VI characteristics of SCR.	7
	b)	Give the various turn-off methods of SCRs.	7
8.	a)	Give the basics of Op-Amp, and relaxation oscillator.	7
	b)	What is power diodes and power transistor.	7

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