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Roll No

EI/IC-8403 **B.E. VIII Semester**

Examination, June 2017

Advanced Industrial Electronics

(Elective - IV)

Time: Three Hours

Maximum Marks: 70

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Note: i) Answer any five questions.

ii) All questions carry equal marks.

- 1. Compare the constructional details of IGBT with BJT.
- 2. Discuss the advantages and disadvantages of MOSFET.
- 3. Draw the circuit diagram of Buck-Boost converter with neat circuit diagram and waveforms.
- 4. Draw the block diagram of SMPS. Explain the function of each block.
- 5. Draw circuit diagram of CSI and explain the same.
- 6. How VSI is used in induction motor control draw its circuit diagram and explain.
- Draw the block diagram of UPS. Explain the function of each block.

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- 8. Answer any four of the following:
 - a) What is GTO? Describe its basic structure.
 - Describe M-type ZCS resonant converter with circuit diagram.
 - c) Draw circuit diagram of VSI.
 - Describe the principle of working of Induction heating along with necessary expressions.
 - How Microprocessor is used in induction motor drives?
 - Discuss slip power controlled induction motor drives.

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