Code No: B4302 / D4302
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.Tech II Semester Examinations, October / November 2011
MICRO PROCESSORS & MICRO CONTROLLERS
(POWER ELECTRONICS)

Time: 3hours   **Max. Marks: 60**

Answer any five questions
All questions carry equal marks
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1. Explain the architecture of 8086 with neat sketch.   [12]

2. a) Explain the different addressing modes of 8086.
   b) What is meant by assembler directives? Explain with examples.   [12]

3. a) Explain the concept of memory segmentation in 8086.
   b) Explain the Interrupt structure of 8086.   [12]

4. a) What is paging in advanced microprocessor?
   b) Explain briefly about Pentium microprocessors.   [12]

5. a) Explain DRAM Interface with 8086?
   b) Explain about analog to digital converters (ADC) interfacing with 8086.[12]

6. Explain the special purpose peripheral device 8253(programmable internal timer 8253)
   and its interface with 8086.   [12]

7. Explain the architecture of 8051 microcontroller with neat sketch.   [12]

8. Write short notes on the following:
   a) Interrupt structure of 8051 microcontroller
   b) DAC (Digital to Analog Converter)
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