R09

Code No: D4302

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.TECH II SEMESTER EXAMINATIONS, APRIL/MAY 2012
MICRO PROCESSORS AND MICRO CONTROLLER
(POWER ELECTRONICS)

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

Answer any five questions
All questions carry equal marks

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1. a) Explain the register organization of 8086 microprocessor.
   b) Explain the flag register of 8086 microprocessor.

2. Explain the instruction set of 8086 in detail with examples for each instruction.

3. Explain maximum mode of 8086 with neat sketch and draw the read, write timing diagrams.

4. a) Explain assembler directives with examples.
   b) What is meant by Macros? Explain with examples.

5. Explain the architecture of PPI 8255 and its different modes of operation with neat sketchs.

6. Explain 8259A PIC programmable interrupt controller and its different mode of operation.

7. Explain the architecture of 8051 micro controller with neat sketch and discuss various addressing modes.

8. Write short notes on
   a) Communication interface 8251 USART
   b) Analog to Digital Converter
   c) Addressing modes of 8051
   d) Pentium and Pentium pro-processors.

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