

**R09**

**Code No: C4904, C5403, C6404, C0703, C4203, C5303**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**M.TECH I SEMESTER EXAMINATIONS, APRIL/MAY-2012**

**MICROPROCESSORS AND MICROCONTROLLERS**

**(COMMON TO ELECTRICAL POWER ENGINEERING, POWER ELECTRONICS AND ELECTRIC DRIVES, POWER ENGINEERING AND ENERGY SYSTEMS, ELECTRICAL POWER SYSTEMS, POWER AND INDUSTRIAL DRIVES, POWER SYSTEM CONTROL AND AUTOMATION)**

**Time: 3hours**

**Max. Marks: 60**

**Answer any five questions**

**All questions carry equal marks**

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1. Explain 8086 addressing modes with examples and also explain register organization.
2. Explain memory segmentation, stack structure, macros of 8086.
3. Explain memory interfacing of DRAM, PPI modes of operations of 8255.
4. Explain DAC with microprocessor.
5. Explain interface of 8251, USART with microprocessor.
6. Explain 8051 memory organization and addressing modes with examples.
7. What is interrupt and interrupt service routine, explain in context with 8051.
8. Briefly explain Pentium and Pentium Pro and differentiate between them.

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