**NR/R09** 

## Code No: A4904, A5403,C4904, C5403,C6404, C0703, C4203, C5605 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.Tech I Semester Examinations, October/November-2011 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 SYSTEMS(HIGH VOLTAGE))

Time: 3hours Max. Marks: 60

## Answer any five questions All questions carry equal marks

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1.	Explain architecture of 8086 microprocessor.	[12]
2.	Explain in detail bus timing min and max modes of 8086 micro computing system	n. [12]
3.	Explain 80386 programming model and memory paging.	[12]
4.	Explain interfacing of ADC with microprocessors.	[12]
5.	What is special purpose of programmable peripheral devices; explain their interfar programmable interval timer.	cing of [12]
6.	a)Difference between microprocessor and microcontroller.	
	b) Discuss in detail 8051 architecture.	[12]
7.	Explain port structure and operation of 8051and interrupt priorities in 8051.	[12]
8.	Explain PPI modes of 8255.	[12]

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