Code No: R31055

R10

Set No. 1

III B.Tech I Semester Supplementary Examinations, November - 2015 MICRO PROCESSORS AND MULTICORE SYSTEMS (Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions All Questions carry equal marks

1	a)	Draw the schematic diagram of 8086 in maximum mode with all necessary support components and explain the function of each support component.	[10]
	b)	What is bus cycle? Draw memory write bus cycle in maximum mode operation.	[5]
2	a)	List out and explain conditional jump instructions of 8086 with example.	[8]
	b)	Write an ALP to multiply two 16bit number by using 8-bit registers.	[7]
3	a)	What is macro? What are the differences between macro and subroutine?	[7]
	b)	Write an ALP in 8086 to find the largest number from an array of 8 bit numbers?	[8]
4	a)	Write an ALP to convert a 3- digit BCD number to binary number.	[5]
	b)	What are assembler directives? Explain the significance of the assembler directives with suitable examples.	[10]
5	a)	What is interrupt vector table? Draw and explain interrupt vector table for 8086.	[8]
	b)	Write the differences between hardware and software interrupts of 8086 processor.	[7]
6	a)	List and explain all ASCII related instructions in 8086 with examples.	[7]
	b)	Write an ALP to transfer 10 words of data using REP MOV SW instruction from source location to destination location. What is the role of SI, DI registers and DF bit?	[8]
7		With a neat diagram, explain the internal architecture of 80286 microprocessor.	[15]
8	a)	List the salient features of Pentium processor.	[7]
	b)	Bring out the architectural differences between 80486 and Pentium processors.	[8]

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