Code No: **R31055**

R10

Set No. 1

III B.Tech I Semester Supplementary Examinations, May - 2018
MICROPROCESSORS AND MULTICORE SYSTEMS
(Computer Science and Engineering)

Time: 3 hours   **Max. Marks: 75**

Answer any FIVE Questions
All Questions carry equal marks
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1	a)	What is a microcomputer? Draw and explain the basic block diagram of a microcomputer.	[8M]
	b)	Explain different assembly language development tools.	[7M]
2	a)	Explain the implementation of jumps and conditional jumps in assembly language with example programs.	[8M]
	b)	Write assembly language instructions to implement a delay of 10 msec.	[7M]
3	a)	List and explain the different string instructions of 8086.	[8M]
	b)	What do you mean by a macro? With a suitable example, explain the definition of a macro.	[7M]
4		What are assembler directives? List and explain different assembler directives with suitable examples.	[15M]
5	a)	Define interrupt? Discuss in detail about the interrupt structure of 8086.	[7M]
	b)	Explain vector interrupt table of microprocessor.	[8M]
6	a)	Write an assembly language program to find out whether the given string is palindrome or not.	[7M]
	b)	Write an assembly language program to convert a BCD number to ASCII number.	[8M]
7	a)	List the salient features of the 80386 microprocessor.	[7M]
	b)	Explain the real mode and protected mode operations of 80386 microprocessor.	[8M]
8	a)	With suitable diagram explain the memory organization of Pentium processor.	[8M]
	b)	Compare the Dual core processor architecture with the Pentium architecture.	[7M]

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