Code No: **R41021 R10**

Set No. 1

IV B.Tech I Semester Supplementary Examinations, February/March - 2018 COMPUTER ORGANIZATION

(Electrical and Electronics Engineering)

Time: 3 hours Max. Marks: 75

Answer any FIVE Questions All Questions carry equal marks

1	a)	What are different types of computers? Explain applications of each type of computer.	[5]
	b)	What is a bus? What is its use? Explain different types of buses that are used	
	۵)	in computers.	[5]
	c)	Explain the floating point representation of numbers.	[5]
2	a)	What are micro operations? Discuss Arithmetic micro operations, Logic micro operation and Shift micro operations.	[10]
	b)	What are registers? Explain the use of accumulator and program counter	- -
		registers used in computers.	[5]
3	a)	What is a Reduced Instruction set computer? Discuss its properties.	[7]
	b)	What is a stack? What is the need for stack memory in computers? Discuss	L' J
		the organization of stack.	[8]
4	a)	Compare between hardwired control and microprogrammed control. Discuss	[0]
	b)	the use of control memory. What is a micro program? Explain with an example.	[9]
	U)	what is a finero program: Explain with an example.	[6]
5	a)	Compare between static RAMs and dynamic RAMs.	[4]
	b)	What type of memory used for secondary storage? Why? Explain the	
		construction of hard disk.	[4]
	c)	What is a cache memory? How is it improves the performance of the	r <i>-</i> 73
		computers.	[7]
6	a)	What is the need for input output interface? Explain.	[4]
	b)	What are interrupts? Briefly explain.	[4]
	c)	What is DMA? What are its advantages? Explain the working of DMA.	[7]
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7	a)	What is parallel processing? Explain the RISC Pipeline.	[8]
	b)	What is Vector Processing? Explain.	[7]
8		What are advantages and applications of multiprocessor systems? List and explain various interconnection structures for multiprocessors.	[15]