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Code No: **R41021**

IV B.Tech I Semester Supplementary Examinations, Oct/Nov - 2018

COMPUTER ORGANIZATION

(Electrical and Electronics Engineering)

Time: 3 hoursMax. Ma			r ks: 75	
		Answer any FIVE Questions		
All Questions carry equal marks *****				
				1
2	a) b)	Design Arithmetic Logic Shift Unit with neat Diagram. Explain about instruction codes.	[8] [7]	
3	a) b)	Explain about Input-Output Instructions with a neat table. Explain about the Instruction Formats in a CPU.	[8] [7]	
4	a)	Define the following: (i) Control Memory (ii) Control Address Register (iii) Sequencer	[9]	
5	b) a)	 What are the address sequencing capabilities required in a control memory? Explain about (i) Virtual memory. 	[6]	
	b)	(ii) Cache MemoryExplain about Magnetic Disk and Magnetic tapes in detail.	[8] [7]	
6	a)	How the connection of I/O bus to input-output devices takes place. Explain in detail.	[6]	
	b)	What is the difference between isolated I/O and memory-mapped I/O? What are the advantages and disadvantages of each?	[9]	
7		Explain about Pipeline for floating-point addition and subtraction with a Flow Chart diagram.	[15]	
8	a) b)	What is a multiprocessor? Explain the characteristics of multiprocessors. Discuss the inter processor arbitration.	[8] [7]	

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