Code No: R1631041 (R16)

SET - 1

III B. Tech I Semester Supplementary Examinations, May - 2019 COMPUTER ARCHITECTURE AND ORGANIZATION

(Electronics and Communication Engineering)

-	Fime: 3 hours		Max. Marks: 70	
		Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. Answer ALL the question in Part-A 3. Answer any FOUR Questions from Part-B		
		PART –A		
	a)	Compare single bus structure and multiple bus structure.	[2M]	
	b)	What is indirect addressing mode?	[2M]	
	c)	What is called static and dynamic branch prediction?	[2M]	
	d)	What do you mean by memory mapped I/O?	[3M]	
	e)	Define Flash Memory and cache memory?	[3M]	
	f)	What are the two approaches used for generating the control signals in proper sequence?	[2M]	
		PART -B		
•	a)	Discuss the history of computer development.	[7M]	
	b)	What is System Software? What the uses of System Software?	[7M]	
	a)	Classify the instructions of typical computers. Explain about Logic Instructions.	[7M]	
	b)	Explain how index register and immediate addressing modes work.	[7M]	
•	a) b)	Using flowchart discuss the hardware algorithm for addition & subtraction. Write an algorithm to add the magnitudes and attach the sign of A to the result, when the signs of A and B are different.	[7M] [7M]	
•	a) b)	Explain about Peripheral Component Interconnect. What are the functions of typical I/O interface?	[7M] [7M]	
	a)	What are the features of PROM? Explain.	[7M]	
	b)	Write Short notes on Optical Disks.	[7M]	
•	a)	What are hardwired and micro programmed controls?	[7M]	
	b)	Discuss about Micro program Sequencing.	[7M]	
