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(SET - 1

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

 (Electronics and Communication Engineering)

 Time: 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

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PART –A

1.	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	
2.	a)	Discuss the history of computer development.	[7M]
	b)	What is System Software? What the uses of System Software?	[7M]
3.	a)	Classify the instructions of typical computers. Explain about Logic Instructions.	[7M]
	b)	Explain how index register and immediate addressing modes work.	[7M]
4.	a)	Using flowchart discuss the hardware algorithm for addition & subtraction.	[7M]
	b)	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]
5.	a)	Explain about Peripheral Component Interconnect.	[7M]
	b)	What are the functions of typical I/O interface?	[7M]
6.	a)	What are the features of PROM? Explain.	[7M]
	b)	Write Short notes on Optical Disks.	[7M]
7.	a)	What are hardwired and micro programmed controls?	[7M]
	b)	Discuss about Micro program Sequencing.	[7M]
