SET - 1 **R20** Code No: R203104C

III B. Tech I Semester Supplementary Examinations, July – 2023 COMPUTER ARCHITECTURE & ORGANIZATION

(Electronics and Communication Engineering)

Time: 3 hours Max. Marks: 70

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		Answer any FIVE Questions ONE Question from Each unit	
		All Questions Carry Equal Marks *****	
		UNIT-I	
1.	a)	Describe functional units of computer with neat sketch.	[7M]
	b)	Explain instruction execution with neat sketch.	[7M]
2	- \	(OR)	[7] (1)
2.	a)	Describe use of processor clock,	[7M]
	b)	Describe the structure of the Bus.	[7M]
3.	a)	Summarize the addressing modes. <u>UNIT-II</u>	[7M]
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	b)	Describe branch instructions.	[7M]
4.	a)	(OR) Describe the role of stacks in computer programming equation	[7M]
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	b)	Explain shift and rotate instructions	[7M]
5.	a)	UNIT-III Illustrate role of Interrupt hardware with neat sketch.	[7M]
	b)	Describe Universal Serial Bus (USB).	[7M]
		(OR)	
6.	a)	Explain Direct memory access (DMA) with neat sketch.	[7M]
	b)	Explain handling of multiple devices with interrupts. UNIT-IV	[7M]
7.	a)	Describe ROM, PROM and EPROM.	[7M]
	b)	Summarize types of mapping functions in cache memory.	[7M]
8.	۵)	(OR)	[7] M]
٥.	a)	Explain hierarchy of memory systems with neat sketch.	[7M]
	b)	Describe features of optical disk. UNIT-V	[7M]
9.	a)	Explain Hardwired control	[7M]
	b)	Explain micro programming sequencing	[7M]
10	د)	(OR)	[∕ 7]] / []
10.	a) b)	Explain role of micro instructions with an example. Describe the logical operations execution procedure.	[7M] [7M]
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