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BT-5 / D-17

COMPUTER ORGANIZATION AND ARCHITECTURE

Paper-CSE-307N

Time allowed: 3 hours]

[Maximum marks: 75

Note:- Attempt any five questions, selecting at least one from each unit. All questions carry equal marks.

Unit-I

- 1. (a) Explain the organization and architecture of a computer system.
 - (b) Discuss fixed point representation of numbers.
- 2. (a) Explain the Booth's algorithm for multiplication by taking suitable example.
 - (b) Describe Flynn's Classification of computer architecture.7

Unit-II

Discuss the following:

15

- (a) Microprogram sequencer
- (b) Memory reference instructions
- 4. (a) Explain the instruction cycle and its phases with an
 - (b) Differentiate between Hardwired control and micro programmed control.

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Unit-III

5.	(a)	Explain the immediate and indexed addressing n Discuss their advantages and disadvantages.	nodes. 8
	(b)	What are the characteristics of CISC architecture? It is different from RISC architecture?	How it 7
6.	Who of it	at do you mean by pipelining? How does pipeline proc astructions improve the performance of the CPU? Exp iil.	cessing plain in 15
		Unit-IV	
7.	(a)	Write short note on memory asynchronous data traddetail.	nsfer in 8
	(b)	What is memory hierarchy? Why do we need it?	7
8.	Wr	ite short note on:	
	(a)	DMA controller and transfer	9
	(b)	Priority Interrupts	6

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