Roll No.:

333512(33)

B. E. (Fifth Semester) Examination, April-May 2020

(Old Course)

(IT Engg. Branch)

COMPUTER ORGANIZATION and ARCHITECTURE

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) of each question is compulsory and carries 2 marks each. Attempt any two parts from (b), (c) and (d) and carries 7 marks each.

Unit-I

- 1. (a) Define MBR.
 - (b) Write down the difference between computer organization and computer architecture in detail.

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4.	(a)	What is Memory Hierarchy?	2
	(b)	What is Cache Memory? Explain it's working principles in detail.	7
	(c)	Explain the concept of memory address mapping of ROM and RAM chip.	7
	(d)	Explain the concept of virtual memory with diagram and example.	7
		Unit-V	
5.	(a)	What is dynamic interconnection network?	2
	(b)	Explain the concept of I/O instruction and I/O interfacing in detail.	7
	(c)	What is DMA? Explain the concept of DMA and it's type.	7
	(d)	Write short notes on: (any two)	7
	(d)	Write short notes on: (any two) (i) Crossbas switch	7
	(d)		7

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Explain the addressing modes in detail, Elaborate machine language milestanes in computer architecture in detail. unit-II-se all la la la What is bias in floating point representation? 2 (b) Explain hardware implementation and Hardware Algorithm in detail. non memory and a state of the analog effects to Explain the Booth's multiplication algorithm in detail. 7 Explain the addition and subtraction with signed 2's complement data with proper example. 7 2 What is Bit Slicing? Write down difference between Hardwired Control 7 Unit and Micro-programmed Control Unit. Discuss the address sequencing in detail.

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Explain the concept of control memory in detail.

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