

CBCS SCHEME

15MT36

(08 Marks)

Third Semester B.E. Degree Examination, Aug./Sept.2020

Computer Organization

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.			
		Module-1	
1	a.	Explain the basic functional unit of a computer with suitable block diagram.	(08 Marks)
	b.	Explain connection between memory and processor with respective register.	(08 Marks)
		OR	
2	a.	What is meant by Computer? Explain any four types of computer with example.	(08 Marks)
	b.	Explain Big – endian and little Endian methods with suitable example.	(08 Marks)
		Module-2	
3	a.	Explain the principle of operation of stack with suitable instruction and diagram.	(08 Marks)
	b.	Define Addressing modes. Explain any three Addressing modes with examples.	(08 Marks)
		OR	
4	a.	Define Assembler. Explain Assembler directives along with general format.	(08 Marks)
	b.	Explain basic input / output operation with neat diagram. Mention differen	
		Memory mapped I/O and I/O mapped I/O.	(08 Marks)
		Madula 2	
_		Module-3 Figure Morroy Access with quitable figure	(08 Marks)
5	a.	Explain the concept of Direct Memoy Access with suitable figure.	(08 Marks)
	b.	Explain different methods used for eEnabling and disabling the interrupts.	(00 Marks)
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6	0	Define Bus Arbitration. Explain the two approaches to bus arbitration.	(08 Marks)
0	a. b.	Explain i) Daisy chain interrupt priority scheme ii) Protocols of USB.	(08 Marks)
	υ.	Explain 1) Daisy chain interrupt priority scheme 11) Trecoons of 622.	(**************************************
Module-4			
7	a.	Define Virtual Memory. Explain how Virtual Memory works with suitable diagram	am.
			(08 Marks)
	b.	Explain with neat diagram, working of Synchronous DRAM.	(08 Marks)
		OR	
8	a.	Explain direct mapping cache memory, with suitable figure.	(08 Marks)
	b.	With neat diagram, explain connection of memory to the processor.	(08 Marks)
		Module-5	(00 M/1)
9		Explain 3 – bus Organization of data path with suitable diagram.	(08 Marks)
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OR

b. Explain Hardwired Control Unit with suitable diagram.

a. With neat block diagram, explain a complete processor.
b. With neat block diagram, explain single bus organization.
(08 Marks)
(08 Marks)

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