Code No: 153AH

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year I Semester Examinations, March - 2022 COMPUTER ORGANIZATION AND MICROPROCESSOR

(Information Technology)

Time: 3 Hours Max. Marks: 75 Answer any five questions All questions carry equal marks

	All questions carry equal marks	
1.a)	Draw and explain the Block diagram of a Digital Computer.	
b)	Explain the Computer Design and Computer Architecture.	[7+8]
2.a)	Discuss the Memory Reference Instructions.	
b)	Write and explain the control sequence for execution of an unconditional instruction.	branch [7+8]
	instruction.	[7+6]
3.	With the help of a diagram, explain the 8086 Processor Architecture.	[15]
4.a)	Explain the I/O Addressing Capability.	
b)	Discuss the machine language instruction formats.	[7+8]
5.	Illustrate the Stack structure of 8086.	[15]
6.	Explain the Interrupts and Interrupt service routines.	[15]
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7.	Compare interrupt-driven data transfer scheme with DMA. Using block d explain interrupt-driven transfer scheme.	iagram, [15]
	explain interrupt-uriven transfer scheme.	[13]
8.a)	What is associative memory? Why is it faster than the main memory? Exp	olain its
b)	hardware organization in detail. Give a brief note on Arithmetic Pipeline.	[8+7]
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