R18

[8+7]

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

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1.a) b)	Draw and explain the Block diagram of a Digital Computer. Explain the Computer Design and Computer Architecture.	[7+8]			
2.a) b)	Discuss the Memory Reference Instructions. Write and explain the control sequence for execution of an unconditional binstruction.	oranch [7+8]			
3.	With the help of a diagram, explain the 8086 Processor Architecture.	[15]			
4.a) b)	Explain the I/O Addressing Capability. 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]			
7.	Compare interrupt-driven lata transfer scheme with DMA. Using block diagentary explain interrupt-driven transfer scheme.	gram, [15]			
8.a)	What is associated memory? Why is it faster than the main memory? Exp	olain its			

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hardware organization in detail.

b)

Give a brief tote on Arithmetic Pipeline.