

Code No: 811AB

R13

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA I Semester Examinations, August - 2017 COMPUTER ORGANIZATION

Time: 3hrs Max.Marks:60

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

PART - A

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	$5 \times 4 \text{ Ma}$	rks = 20
1.a)	What is the use of K-map? Give example.	[4]
b)	What is ROM? List and explain different types of ROM.	[4]
c)	Define interrupt. How are interrupts handled?	[4]
ď)	What is the difference between memory mapped I/O and isolated I/O?	[4]
e)	What is an Inter process communication? How multiprocessors communicate	
ς)	each other?	[4]
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PART - B		
$5 \times 8 \text{ Marks} = 40$		
2.	What do you mean by decoder? Explain about three-eight- line and two-fo	our-line
	decoders with their logic diagrams and truth tables.	[8]
	OR	
3.a)	What is a flip-flop? List and explain some of the flip-flops.	
b)	What is shift register? Explain bidirectional shift register with parallel load.[4+4]	
	2.0	
4.	Explain in detail about memory connection to CPU.	[8]
	OR	
5.	Write short notes on:	
	a) Direct mapping	
	b) Set-associative mapping.	[4+4]
6.	Explain different data transfer instructions for 8086 microprocessor.	[8]
	OR	
7.	Discuss about assembler directives.	[8]
		L-J
8.	Discuss about programmed I/O and interrupt driven I/O.	[8]
	OR	L-J
9.	Explain briefly about priority interrupts.	[8]
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10.	Write short notes on:	
	a) RISC pipeline	
	b) Vector processing.	[4+4]
	OR	ι'''
11.	Explain the concept of pipelining.	[4+4]
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