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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA (An Autonomous Institute)

Affiliated to Dr. A.P. J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow

Course: B. Tech

Branch: CSE

Semester: IV

Sessional Examination: II

Year- (2021- 2022)

Subject Name: Microprocessor

Time: 1.15 Hours

[SET- B]

Max. Marks:30

General Instructions:

> This Question paper consists of 3 pages & 5 questions. It comprises of three Sections, A, B, and C

Section A Question No-1 is objective type questions carrying 1 mark each, Question No-2 is very short answer type carrying 2 mark each. You are expected to answer them as directed.

Section B - Question No-3 is Short answer type questions carrying 5 marks each. Attempt any two out of three questions given.

Section C - Question No. 4 & 5are Long answer type (within unit choice) questions carrying 6 marks each. Attempt any one part a or b.

9.0	SECTION - A	[08Marks]	
1.	All questions are compulsory	(4×1=4)	
	a. If 'n' denotes the number of clock cycles and 'T' denotes period of the clock at which the microprocessor is running, then the duration of execution of loop once can be denoted by a) n+T b) n-T c) n*T d) n/T	(1)	CO2
	b. What does microprocessor speed depends on? a) Clock b) Data bus width c) Address bus width d) All of these	(1)	CO2

The state of				
	c.	Instruction decoder	(1)	CO3
		a) Holds the address of the current instruction	Towns I -	
	1	b) Contains next instruction to be fetch	Market Harris	
		c) Decodes the OPCODE and generates control		
		signals d) Fatches approved from		
		d) Fetches operands from memory		
-	+.	Will all the Control of the Control		
	d.	What is the status of z flag, cy flag, sign flag at the	(1)	CO2
	1	end of this program? MVI A, 02H		
		MVI B, 03H		
	1	ADD B		
136		XRA A		
		a) 1,0,0		1 - 4 - 9
		b) 0,1,0		
		c) 1,0,0		
		d) 1,0,1		0
2.	All	questions are compulsory	(2×2=4)	0
.(a.	Write down the classification of Instruction Set of	(2)	CO2
0	1.	8085.	100	7
K	h	Define Insuring	XX	
	b.	Define looping.	(2)	CO3
		SECTION - B	[10Marks]	
		SECTION - D		
	1.			
3.		swer any two of the following-	$(2 \times 5 = 10)$	
	a.	Explain data transfer operations in 8085	(5)	CO2
	-	microprocessor with examples.		
	b.	Write a program to subtract two 8-bit numbers.	(5)	CO2
	c.	Explain Counting and Indexing with flow chart.	(5)	CO2
			[12Marks]	
		SECTION - C		
4.	An	swer any one of the following-	(1×6=6)	
	a.	Write a program to count from 0 to 9 with a one-	(6)	CO3
		second delay between each count. At the count of 9,	(0)	COS
	1			
		the counter should reset itself to 0 and repeat the		1
		sequence continuously. Use register pair HL to set		0
	1.0			
No.		Page 2 of 3		
KY			MY	
		00		
100	The ball	No. of the second secon		The state of the

		up the delay and display each count at one of the output ports. Assume the clock frequency of the microcomputer is 1 MHz.		
	b.	Briefly explain arithmetic instructions in 8085 microprocessor with examples.	(6)	CO2
5.	A	nswer any one of the following-	(1×6=6)	
	a.	Explain Stack and Subroutine.	(6)	CO3
	b.	Write 8085 Assembly language program for BCD to binary conversion.	(6)	CO3

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