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Subject Code: ACSE0405

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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: I

Year- (2021 - 2022)

Subject Name: Microprocessor

Time: 1.15 Hours

[SET-A]

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.

		SECTION - A	[08Marks]	
1.	All	questions are compulsory	(4×1=4)	
	a.	Which of the following is true about microprocessors? a) It has an internal memory b) It has interfacing circuits c) It contains ALU, CU, and registers d) It uses Harvard architecture	(1)	C01
	b.		(1)	CO1
c	c.	An interrupt breaks the execution of instructions and diverts its execution to a) Interrupt service routine b) Counter word register	(1)	CO1

6,			156,	
		703		
	T	c) Execution unit		
		d) control unit		
	d.	What is true about Program counter?	(1)	CO
	1	a) It is an 8-bit register, which holds the temporary		
		data of arithmetic and logical operations.		
		b) When an instruction is fetched from memory then		
	1	it is stored in the program counter		1
		c) It provides timing and control signal to the		
	1	microprocessor		
		d) It is a 16-bit register used to store the memory		
		address location of the next instruction to be		
	1	executed.		
2.	-	questions are compulsory	(2×2=4)	
	a.	What are the different types of Flags in 8085?	(2)	CO
	1	With the help of a past cumbal combine to state	(2)	CO
	b.	With the help of a neat symbol explain tri-state buffer.	(2)	CO
3.0)	Carrett	[10Marks]	
0)			0	
-		SECTION - B	11-4	
		SECTION - B		
3.	An	swer any two of the following-	(2×5=10)	
	a.	Differentiate Von Neumann and Harvard	(5)	CO
		Architecture.		
	b.	What is meant by interrupt? And explain different	(5)	COI
		types of interrupts available in 8085.		
	c.	How many signal groups are in 8085 pins?	(5)	COI
		SECTION C	[12Marks]	
4	An	swer any one of the following-	(1×6=6)	
	a.			CO
	a.	Sketch the internal architecture of 8085 microprocessor.	(6)	CO
	b.	What are the data transfer instructions? Explain	(6)	CO
		with examples.	(0)	
5.	An	swer any one of the following-	(1×6=6)	
910)	Page 2 of 3	1200	5
		403		

a.	Draw and explain the timing diagram of opcode fetch cycle.	(6)	COI
b		(6)	C01

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