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Subject	Code	: AC	SE-040	5
Roll No:	5PI	Ш	III	ПП

## 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.

Semester- IV

Branch-CSE **Examination-PUT** 

Year- (2021-22)

Subject Name: Microprocessor

Time: 2:00 Hrs

Max. Marks:60

## General Instructions:

1. This Question paper consists of 3 pages & 4 questions. It comprises of three Sections A, B, & C.

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

3. Section B-Q.No-3 is Short answer type questions carrying 5 marks each. Attempt any four out of five questions

4. Section C - Q. No.4 is Long answer type questions carrying 6 marks each. Attempt any four out of six questions given.

	5	SECTION - A		
1.	[8x1=08]			
	1-a.	The weights used in Binary coded decimal code are:	(1)	CO3
1		a) 4,2,1,8		
1		b) 8,4,2,1		
		c) 6,4,2,1		
5		d) 2,1,2,1		
	1-b.	PROM stands for:	(1)	CO3
		a) Programmable read-only memory		
		b) Programmable read write memory		
		c) Programmer read and write memory		
		d) None of these		
	1-c.	As the storing of data words onto the stack is increased, the	(1)	CO3
		stack pointer is		
		a) incremented by 1		
-		b) decremented by 1		
		c) incremented by 2		
		d) decremented by 2		
	1-d.	Which of the following is not one of the types of buses?	(1)	CO4
		a) Control bus	(-)	
		b) Data bus		
	HOM			

	),			
F		c) Address bus	<del></del>	
		d) Utility bus		
	1-e.	The state of the s	(1)	CO4
1		output pulse this known as		
1		a) specific decoding.	100	
-		b) absolute decoding. c) partial decoding.	100	
-		d) general decoding.		
T	1-f.	The largest two digit hexadecimal number is	(1)	CO4
		a)*(FE)16	(1)	004
		b) (FD)16	1	
		c) (FF)16		The same
-	1.	d) (EF)16		
	1-g.	The instruction that exchanges top of stack with HL pair is  a) XTHL	(1)	C03
		b) SPHL		
		c) PUSH H		
		d) POP H.		16,
	1-h.	The number of counters that are present in the	(1)	C05
	10:	programmable timer device 8254 is	0.	
(		a) 1		
		b) 2		
		c) 3 d) 4		
2.	. Atte	mpt all parts (Short Answer Type)-	[4×2	=08]
	2-a.	What are the different types of methods used for data	(2)	C05
		transmission?		
	2-b.	What is 8251 USART?	(2)	CO5
	2-с.	Explain IN Instruction.	(2)	CO4
	2-d.	What do you mean by Timer?	(2)	C03
		SECTION – B		
3.	Atter	Attempt any four out of five questions-		
	3-a.	Draw the flowchart for modulo ten counter and Explain it.	(5)	CO3
	3-ь.	What are the conditional CALL statements in assembly	(5)	CO3
	3-с.	language? Explain with example.	(=)	004
	J-C.	Draw timing diagram for OUT instruction.	(5)	CO4
	.0		.0.	
4		700		Ministral Burning

	3-d.	Compare memory mapped I/O and I/O mapped I/O.	(5)	CO4			
	3-е.	Explain the pin diagram of 8086 microprocessor.	(5)	CO5			
	SECTION-C						
4	. Atte	Attempt any four out of six questions-					
	4-a.	Draw timing diagram for STA instruction.	(6)	CO4			
	4-b.	Convert a 2-digit BCD number stored at memory location	(6)	CO3			
		2200H into its binary equivalent number and stores the					
		result in memory location 2300H.					
	4-c.	Draw the Block diagram of 8255(PPI) and explain its	(6)	CO5			
		various operating modes.					
	4-d.	Draw and explain the architecture of 8086 microprocessor.	(6)	CO5			
	4-e.	With Proper diagram explain Memory-Mapped I/O	(6)	CO4			
0	1	Interfacing.					
	4-f.	Draw the architecture of DMA controller 8237 and explain	(6)	CO5			
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		———THE END					
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