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Roll No.

322551(22)

B. E. (Fifth Semester) Examination, April-May 2021

(New Scheme)

(CSE, IT Branch)

MICROPROCESSOR & INTERFACES

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Part (a) of each question is compulsory. Attempt any two parts from (b), (c) and (d).

Unit-I

- 1. (a) Why 8085 microprocessor called '8085'? 2
 - (b) What are the advantages of 8086 microprocessor over 8085 microprocessor?

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	12] = 045 1 050			[3]	
	Explain internal architecture of 8088 microprocessor.Draw pin diagram of 8085 and explain following pins:	7		(b) Write a program that uses character string defined with C and displays it so each word is listed on a separate line.	7
	(i) ALE (ii) SID (iii) RESETIN (iv) HOLD			(c) Draw the structure of interrupt vector table. Explain all types of interrupts.(d) Draw and explain the timing diagram of read cycle for maximum mode operation of 8086.	7
	(v) TRAP Ismail bettermine			Unit-IV	
	Unit-II		4.	(a) What is the difference between min mode and max mode?	2
(b)	What is the difference between SP and BP? Write an assembly level language program to find even and odd number from given series. Which two pins are used to select even and odd	7		(b) Design an interface between 8086 CPU and two chips of 16 K × 8 EPROM and two chips of 32 K × 8 K RAM. Select the starting address of EPROM suitably. The RAM address must start at 00000 H.	7
n	memory bank in 8086? Draw architecture and explain concept of memory banking used in 8086.	7		(c) Explain the different modes of 8285 with its control word format.	7
(d)) What is addressing mode? Explain all indirect addressing modes used in 8086 microprocessor.	7		(d) What is DMA? Explain its arcchitecture and transfer modes.	7
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3. (a)	What is vector interrupt?	2	5.	(a) Write any two features of 80386 processor.	2

(b) Compare real mode and protected mode operation	
of 80386 processor.	7
(c) Write short notes on:	7
(i) Paging	
(ii) Segment descriptor	
(d) Give comparision of core i_3 , i_5 , i_7 and Atom	
processors.	7
(b) Design an interface netween 8086 CRC and two days of 12 K object of the storing midroscof EPROM SERVICE STORING MINISTER IN 00000 FL onliably The Raff affects must start at 00000 FL	
lorenes ati dipyé éstik le jakon payaitib ati maigrál (c) himini brow	
(d) What is DMAAC voluin its ancels rounce and transfer modes.	