Roll No. ....

Total Pages: 2

## BSIT/D-14

## MICROPROCESSOR ARCHITECTURE AND PROGRAMMING-III

Paper-BSIT-505 Time: Three Hours] Regular: 40 [Maximum Marks: Reappear: 45 Note: Attempt five questions in all. Select one question from each unit. Question No. 1 is compulsory. Compulsory Question (a) Explain key differences between hardware interrupt and software interrupt. (b) Why memory mapped method of interfacing I/O devices is not preferred? (c) Explain the main functions performed by a memory. 2 (d) What do you mean by swapping out of the executable program. UNIT-I 2. (a) Discuss nested macro using suitable example. (b) Explain the process of passing parameters to Explain the structure of interrupt vector table of 8086. (b) Write ALP to generate 3 sec. delay using microprocessor system that runs at 10 MHz. 12260/450/KD/27

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		UNIT-II
1		(a) Explain how dynamic memory is interfaced
1	4.	with a CPU.
		. OVE DAM shine and six SK EPROM chins
		(b) Interface six 8K RAW chips and six of El Row chips with 8086.
., 7		NEDER MADE
	5.	(a) Discuss memory-mapped method of Interfacing I/O
		devices using suitable example.
		(b) Write ALP to display numbers 1 to 5 on 7 segment
		displays interfaced with 8086 output ports. The
		7-segment codes are stored in a look-up table serially
	A 1	at address 2000:0000H onwords.
		UNIT-III
		with 2026 using suitable
	6.	block diagram.
		(b) How does CPU differentiate the 8087 instructions
		from its own instructions.
		Architecture of 8087
	7.	Draw and discuss Architecture of 8087.
		YYNIYO IN
		(a) Explain the salient features of 80286 in virtual
	8.	
		address mode.  (b) Explain Net Brust micro architecture.
	. 9.	(a) Discuss advantages and basic features of RISC
	9.	processor.
		(b) Discuss salient features of Pentium 4.