END TERM EXAMINATION

U2-16

SIXTH SEMESTER [B.TECH/M.TECH] MAY-JUNE 2016

0411	Subject: Micro	
/	100° 0	Maximum Market 60
No	te: Attempt any five questions including Q no. Select one question from each	1 which is compulsory
1	(a) Why segmentation of memory concept (segment reg	
	(b) Explain the instructions LEA, ADR	(2)
	LES BX, 5000H	(2)
	(c) How microcontroller is different to microprocessor?	(2)
	(d) Write the name of modes in 8254? Also tell which m square wave?	ode in 8086 is used to generate (2)
	(e) Explain the difference between machine cycle and inst	ruction cycle? (2)
	(1) Explain Dual slope A/D convertor.	(2)
	(g) Write 80887 control and status word formats.	(2)
	(h) Name the categories in which Instruction set of 8086 is	s categorized? (2)
	(i) Interface two 4Kx8 EPROMS and 4Kx8 RAM chips ar	
	(j) Explain the following directives for Intel 8086 micropro	
		(2)
	UNIT-I	
	(a) Compare the 8085 and 8086 microprocessor.	(5)
	(b) Explain the 80268, Pentium Processors and microconti	rollers. (5)
	(a) What are the functions of the following pins of 8085 m	
	(i) READY (ii) ALE (iii) HOLD (iv) TR (b) Tell meaning and operation of operand, instruction we	ord size, machine cycle, T-state
	for the following opcode used in 8085 microprocessor (i) LDA (ii) JMP (iii) POP (iv) DAD (v) CPI (vi)	
	UNIT-II	
	(a) Explain the register organization diagram of 8086.	(5)
	(b) Explain BIU and EU in 8086 microprocessor. OR	(5)
	(a) Compare and explain Maximum Mode and Minim microprocessor with their timing Diagrams.	(6)
	(b) Compare 8086 microprocessor with 8088.	(4)
	UNIT-III	
	(a) Explains the different addressing mode with microprocessor.	(6)
	(b) (i) What is the difference between DAA and AAD ins	tructions?
	(ii) Show the content of flap registers and AL	
	If AL=59, BL=35 and	
	ADD AL,BL	<i>**</i>
	DAA	(4)
	OR	

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P.T.O.

Q7	 (a) Write an assemble language Program to (i) Arrange a given series of hexadecimal bytes in ascending order. (ii) Find square root of two digit number. Assume that the number is a perfect (b) Explain Program development algorithm for Assembly language program assembly language Program development tools. 	(4) square. and its (6)
	UNIT-IV	
Q8	 (a) State the addressing modes of 80368. Given the various exceptions which occupred operating in the Protected Virtual addressing mode. (b) Explain the following: (i) Why 8087 is known as coprocessor? (ii) What is the difference Single Handshake I/O and Double-Handshake data for parallel data transfer. 	(6)
Q9	(a) Interface 16 bit 8255 ports with 8026 at 80H as an I/O address of port A. If five 7 segment displays with 8255. Write a sequence of instructions to display 4 and 5 over five displays continuously as per their position starting with MSB position. (b) Explain the Architecture and signal descriptions for 8254 chip. Also exp different operating modes of programmable timer device (8254).	1, 2, 3, 1 at the (5)