5-E (17) Sem IV Rev 30/11/13 Microprocessor & Microconteller

VT-S.H.Exam. Oct(I).-13- 72

Con. 6311-13.

LJ-10509

	(3 Hours) [Total Marks: 100	
N.B.	: (1) Question No. 1 is compulsory. (2) Attempt any four questions out remaining questions. (3) Figures to the right indicate full marks.	
1. D	esign an 8086 based system to interface following – (a) 128 KB RAM using 62256 chips (b) 64KB EPROM using 27256 chips (c) Two 16 bit input and output ports.	20
•	Explain the addressing modes of 8051 microcontroller. Explain the register file structure of PIC microcontroller.	10 10
-	What is the concept of mixed language programming? Explain with example. Draw and explain minimum mode operation of 8086.	10 10
,	Explain the hardware and soffware interrupts of 8051 microcontroller. What are the various assemble directives of 8086.	10 10
•	 Interface DAC with 8051 and write a program in assembly to generate triangular waveform. Explain Harvard Architecture and Pipelining. 	10 10
6. (a	,	10
(b)	SCON, TCON, TMOD, PCON. Explan following instructions of 8086 – INT, CMP, STOS, MOV, ADC.	10
7. W	rite shor notes on :- (a) Serial communication of 8051 (b) Clock generator 8284 (c) Inter and Intra segment call.	20