01/12/12

Sem IV IT Microconturu Microprocessor & Microconturu

61 : 2nd half-12-(f) JP

Con. 7869-12.

KR-7178

			(3 Hours)	[Total Marks :	100
N	I.B.:	(1) (2) (3)	Question No. 1 is compulsory. Solve any four out of the remaining six questions. Draw neat diagrams wherever required .		
1.	. De	esign (a) (b) (c) or the (i) (ii) (iii) (iv)	an 8086 based system to interface : 64 KB RAM using 62256 chips 64 KB EPROM using 27256 chips 2 16-bit input and output ports in handshake mode. above specifications : Draw the memory map and input-output map Draw the necessary interfacing diagram Explain the concept of using absolute decoding Draw the interfacing diagram and explain the same.	· · ·	20
2.	(a) (b)	Exp Inte the	plain the Timer/Counters of IC 8051. erface 8051 with 8255 PPI. Explain its interfacing diagram and port structure of 8051.	l hence explain	10 10
3.	(a) (b)	Exp Exp	plain the addressing modes of 8086 with examples. plain the following instructions of 8086 – INTO, CMP, STOS, MOV, ADC.	·	10 10
4.	(a)	Exp asso freq	blain how parameters are passed to a procedure. Also write embly language program to generate a delay of 100 M secs. / quency to be 10 MHz.	an 8086 based Assume system	10
	(b)	Drav mini	w the schematic of maximum mode of operation of 8086 and I imum and maximum mode of 8086.	ence compare	10
⁻ 5.	(a)	Write wave of or	te an assembly language program for 8051 micro-controller to ge re of 2 KHz on pin 1.0 assuming crystai frequency of 12 MHz. J peration.	nerate a square ustify the mode	10
	(b)	Expl disa 8086	lain what is meant by segmented memory. State its ad idvantages (if any) and hence explain the logical and physi 6 with example.	vantages and cal address in	10
6.	(a) (b)	Expl Expl	lain the hardware and software interrupts of 8051 micro-cont lain the register set of 8086. Also explain the flags of 8086 i	roller. 1 detail.	10 10
7.	Writ	te sho (a) (b) (c) (d)	ort notes on :— Watchdog timer of PIC Serial communication of 8051 Assembles directives Jump instructions of 8051 μC.		20