JE-Sem-JJ-019-EXIC

QP Code: 1882

Time 3 Hrs

Max. Marks 100

	7	
Note:	Question no. 1 is compulsory. Answer any four from Q.2 to Q.7 All questions carry equal marks.	
Q.1 A	Design 8086 microprocessor based system with following specification a) Microprocessor 8086 working at 10 MHz b) 64_KB_EPROM using 16 KB chips	1
	c) 8 KB SRAM using 4 KB chips Explain the design.	20
В	Explain memory organisation of PIC 18.	10
Q.2 A B	Discuss different instruction formats of PIC 18. Draw timing diagram for read operation in minimum mode of 8086 and explain it.	10
Q.3 A B	Interface 8087 NDP with 8086 microprocessor and explain their communication. Explain different data transfer modes of 8257 DMA controller.	10
Q.4 A B	What is addressing mode and explain data related addressing modes of 8086 microprocessor. Draw port structure of PIC 18 and explain.	10
Q.5 A	Explain interrupts structure of 8086 microprocessor. List different addressing modes of PIC 18 with examples.	10
Q.6 A	Write assembly language program for 8086 microprocessor to find out largest elements out of 10 elements. With the help of neat diagram explain interfacing of six, 7 segment displays with PIC 18.	10
Q.7 A	Write note on i) Cascading of three 8259s ii) Assembler directives iii) Bus controller 8288	20

iv) Features of 80386