Faculty of Engineering & Technology Fourth Semester B.E. (Computer Technology) (C.B.S.) Examination

ADVANCED MICROPROCESSOR AND INTERFACING

Time—Three Hours]	[Maximum Marks—80
INSTRUCTIONS	O CANDIDATES

- (1) All questions carry marks as indicated.
- (2) Due credit will be given to neatness and adequate dimensions.
- (3) Assume suitable data wherever necessary.
- (4)—Diagrams and Chemical equations should be given wherever necessary.
- (5) Illustrate your answers wherever necessary with the help of neat sketches.
- Draw and explain Architectural diagram of 8086, in detail.
 Also mention advantages of pipelining.

OR

- 2. (a) Explain all the addressing modes of 8086 with one example each.
 - (b) Write a program to arrange 10 bytes in Ascending order.

3.	(a)	Draw and explain block diagram of 8253 PIT.	7
	(b)	Explain CWR of 8253 PIT.	6
		OR	
4.	(a)	Interface DAC with 8086 in minimum mode a write a program to generate sawtooth wave of 0 10V.	
	(b)	Interface ADC 0809 with 8086, and explain.	5
5.	(a)	Explain dedicated interrupts of 8086.	6
	(b)	Explain all the modes of operation of 8255 PPI	in
		detail.	8
		OR	
6.	(a)	Draw and explain block diagram of 8259 PIC.	7
	(b)	Interface 8251 USART with 8086, and write	a
	d I	program to transfer 100 bytes in Asynchronous mo	de.
		Ť	7
7.	(a)	Explain different keyboard modes of 8279 PKD	C.
		s'	7
	(b)	Interface 8237 DMAC with 8086 from address	ess
		6000 H.	7
		OR	
8.	(a)	Explain loosely coupled and closely coupled configuration.	led 7
	(b)	Draw and explain NDP Architecture Diagram.	7
9.	Dra	w and explain Architectural Diagram of 8051.	13
		OR	

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10. (a) Explain Real and Protected mode.	7
(b) Explain the concept of paging.	
11. (a) Mention the advantages of Super Scalar Architectu	are.
±	6
(b) Give difference between RISC and CISC.	7
OR	
12. (a) Explain GDT, LDT and IDT, in detail.	
(b) Explain the process of multitasking using TSS.	5
4: 4 × 5	