B.C.A. (Part-II) Semester-IV Examination ADVANCE MICROPROCESSORS AND MICROCONTROLLER Paper-4ST5

Tim	e : T	Three Hours]		[Maximum Marks	: 60
Note	e :	(1) All questions are compulsory.			
		(2) All questions carry equal marks.			
		(3) Due credit will be given to neatness.			
1.	(4)				
1.	(A)	What is addressing mode? Explain: (1) Register addressing mode	(2)	Immediate addressing and	
			(2)	Immediate addressing mode	. 1 .
		(3) Direct addressing mode	(4)		6
	(B)	Explain real mode of operation of 8028		tail.	6
		OR			
2.		Explain internal architecture of 80286 µp with diagram in detail.			8
	,) State salient features of 80286 μp.			
3.	(A)) Explain register organisation of 80386 μp with neat diagram.			6
	(B)	Explain the concept of segmentation of OR		ate salient features of 80386.	6
4.	(P)	Explain flag register of 80486 µp in de			6
		D) Explain addressing modes of 80386 μp.			6
5.) What is PSW register? Explain and draw PSW register of 8051 μc.			6
		How many ports are there in 8051 µc? Explain in detail.			6
		OR			
6.		Explain TMOD & TCON SFR of 8051 microcontroller.			6
~		What is register bank? Explain in detail with diagram.			6
7.	(A)	Explain the functions of following instr		•	
		(1) DIV AB (3) MUL AB	(2)	ANL A,# 08H ADD A, 25H	
		(5) INC A	(6)	CLR C.	6
	(B)	What is ALP programming? Write ALP p using 8051 µc with flowchart.	` /		
		OR			
8.	(P)	State addressing modes that are available in 8051 µc. Explain any four addressing modes with example.			
	(Q)	What is Branching Group and its types? Explain LJMP & SJMP instructions $68051 \mu c$.			s of 6
9.	(A)	Explain SCON and PCON SFR of 805	1 μc in det	ail.	6
	(B)	What do you mean by interfacing? Exp	lain interfa	cing of DAC 0808 with 8051	μc. 6
		OR			
10.		What are power saving options availab		•	6
	(Q)	What is the need of RS-232C? Explain interfacing of RS-232C with 8051 μc.			

