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

Paper-4ST5

Time—TI	hree Hours] [Maximum Marks	6 0
N.B. :—	 All questions are compulsory. All questions carry equal marks Draw neat sketches wherever necessary. Draw the internal block diagram of 8 microprocessor and explain it. What is addressing mode? Explain an 	80286 8 y two
	addressing modes of 80286 µp.	4
ı	OR	
2. (A)	Write down the features of 80286 µp.	6
(B)	Explain real mode operation of 80286 µg	o. 6
70	Explain in detail register organisation of 803	
(B)	Explain following addressing mode of 80 with example:— (i) Scaled indexed mode (ii) Base scaled indexed mode (iii) Base scaled indexed with displacem OR	
uwo-4	12469	Contd.

4.	. (A) Explain different data types in 80386 μp.	(
	(B) Explain the segment descriptor register of 80	386
		6
5.	(A) Explain block diagram of 8051 Microcontro	مالد
	and explain each block.	8
	(B) Differentiate between Microprocessor	
	Microcontroller.	4 4
	OR	7
6.	* * * * * * * * * * * * * * * * * * * *	,
٠.	 (A) Explain internal RAM memory of 80 microcontroller.)51
		6
	(B) Explain SP, PC, and data pointer register in 80)51
	microcontroller.	6
7.	(A) Write program for addition of two 8-bit number	er.
	Draw the flow chart for same.	6
	(B) What is meant by addressing mode? Expl	ain
	Register and Register indirect addressing mo	de
	with suitable example.	6
ar.	OR	
3.	(A) Explain data transfer instruction of 80	51
	microcontroller with example.	4
	(B) Explain LJMP and SJMP instructions of 80	5 1
	microcontroller.	4
	(C) Explain multiplication and division instruction	
	of 8051 microcontroller.	ns 4
w	0. 42460	•
	0-42469 2 Cont	d.

9.	(A)	Explain		saving	mode	of	8051
		microcon			_		6
	(B)	Explain w	ith suitab	le diagran	ı, Interfa	cing	of RS-

OR

232C with 8051 Microcontroller.

- 10. (A) Explain interfacing of 8255 PPI with 8051. 6
 - (B) Explain simplex, half duplex and full duplex mode of communication with suitable diagram. 6