AU-200

B.C.A. Part-II (Semester-III) Examination

ELECTRONICS

Paper-3ST5

Time:	Thre	ee Hours]				[Maximun	Marks: 60		
N.B. :-	 (1) All questions	are compuls	ory.					
	(2	2) All questions	carry equal r	marks.					
El	ITH	ER							
1. (A	(A)) Draw and explain timing diagram of memory read bus cycle.							
(B	B) E	Explain the function of the following pins:							
	(i	\overline{RD}	(ii)	WR	(iii)	IO/\overline{M}			
	(i	iv) ALE	(v)	READY	(vi)	HOLD	6		
0	R								
2. (P) E	Explain one byte, t	wo byte and	three byte in	structio	ons with suitable example.	6		
(Ç)) E	Explain the function	n of differen	t flags of 808	35 with	suitable diagram.	6		
El	ITH	ER							
3. (A	_	Give the classification of instruction set and explain the arithmetic group of instruct suitable example.							
(В	3) V	Write ALP for sub	traction of tv	vo 8 bit num	bers an	d draw the flowchart.	6		
0	R								
4. (P) E	Explain the CALL-RET structures of subroutine with suitable diagram.							
(Ç	Q) V	Write an ALP for r	nultiplication	n of two 8-bi	t numb	ers and draw flow chart.	6		
E	ITH	ER							
5. (A	A) E	Explain the BSR control word format of 8255 PPI with suitable diagram.							
(B	B) . E	Differentiate between	een memory	mapped I/O	and I/C	mapped I/O scheme.	6		
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	OR		
6.	(P)	Draw the block diagram of 8253-PPI and explain the function of each block.	6
	(Q)	Explain synchronous and asynchronous data transfer schemes.	6
	EIT	HER	
7.	(A)	Explain the function BIU and EU with well labelled diagram of 8086.	8
	(B)	Explain the index registers of 8086 up.	4
	OR		
8.	(P)	Explain the status rlags of 8086 µp.	6
	(Q)	Explain the operating modes of 8086 µp.	6
	EIT	HER	
9.	(A)	Explain MOV, PUSH, POP instruction of 8086 μp.	6

(B) Write ALP for division of two numbers and draw flow chart.

10. (P) Explain various addressing modes of 8086 with suitable example.

(Q) Write ALP for addition of two 8-bit numbers and draw flow chart.

OR