(B) Write ALP of Division of two 8-bit data using 8086 microprocessor. 6

OR

 (P) Write ALP to add two 16 bit data using 8086 microprocessor.

(Q) Explain any six MOV instructions.

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

ELECTRONICS

3ST5

P. Pages: 4

Time: Three Hours]

Max. Marks: 60

Note: (1) All questions are compulsory.

(2) All questions carry equal marks.

1. EITHER

- (A) Draw the block diagram of architecture of 8085 microprocessor and explain ALU and Register arrays section. 6
- (B) Draw and Explain the timing diagram of memory read cycle.

OR

- (P) Draw the block diagram of microcomputer and explain each block.
 - (Q) State the function of following pins of 8085 microprocessor.
 - (1) READY
 - (2) ALE

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P.T.O.

	(3) SOD	* 4			OR
	(4) INTR (5) IO/M		6.	(P)	Explain the I/O control word format of 8255 PPI with suitable diagram. 7
	(6) SID 6			(Q)	Explain synchronous and Asynchronous data transfer scheme. 5
3. EIT	HER			, F	the second of th
(A)	What is Stack ? Explain stack related		7.	EITI	HER
1-2	instructions. 6 Draw the flow chart and write ALP for addition			(A)	Draw block diagram of 8086 Microprocessor and explain Bus interface unit. 5
	of two 8-bit nos. store result at memory location 1500 H.			(B)	Explain various registers used in 8086 microprocessor.
	OR				OR
4. (P)	What is subroutine? Explain CALL and RET instruction 6		8.	(P)	Draw pin diagram of 8086 Microprocessor and explain the function of each pins. 7
(Q)	Explain the addressing mode of 8085 microprocessor with suitable example.	2		(Q)	Expla :
w.					(i) Segment register.
5. EIT	HER		ř		(ii) Index register. 5
(A)	Draw the block diagram of 8255 PPI and explain function of each block. 7		9_	EIT	HER
(B)	Explain memory mapped I/O and I/O mapped I/O scheme. 5	seu vii saa	1	(A)	Explain PUSH and POP instruction of 8086 microprocessor. 6
AL-532	2		AL-	-532	3. P.T.O.