#### AM-236

# B.C.A Part—II Semester – III Examination ELECTRONICS – 3ST5

Time—Three Hours]

[Maximum Marks—60

N.B.: (1) ALL the questions are compulsory.

(2) All questions carry equal marks.

### **EITHER**

- (A) Draw pin diagram of 8085 μp and explain function of important pins.
  - (B) Draw and explain timing diagram of memory write machine cycle.

## OR

2. (P) Explain the operation of fetch and execute cycle.

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- (Q) Explain the instruction format in 8085 microprocessor with suitable example.
- (R) Explain the function of different flags in 8085 microprocessor.

### **EITHER**

3. (A) Explain logical group of instruction with suitable example.

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	(B)	Draw the flow chart and write ALP for fi minimum number from two numbers.	nding the		(Q)	Draw the block diagram of 8255 PPI.
	OR		6		(R)	Explain the control word format of 8255 PPI is I/O mode.
4.	(P)	of the following mistre	ructions of		EIT	THER
		8085 microprocessor :		7.	(A)	Explain BIU and EU of 8086 microprocessor.
		(i) MVI R, data			(B)	Explain the concept of Physical Address and Effective
		(ii) RAR				Address.
		(iii) STA 1500 H			OR	
		(iv) NOP		8.	(P)	Draw and expalin flag register of 808 microprocessor.
			XCHG		(O)	Explain general purpose register of 8086
		(vi) MOV B, C.	6		( )	microprocessor.
	(Q)	Draw the flow chart and write ALP for di	vision of		EIT	HER
		data present at memory location 1500	) H and	9.	(A)	Explain any six MOV instructions of 8086.
		1501 H. Store the result at 1502 H and	1503 H. 6		(B)	Write an ALP for multiplication of two 8-bit numbers
	EIT	HER			OR	· ·
5.	(A)	Explain various modes of data transfer.	6	10.		Explain LEA, LDS and LES instructions. 6
	(B)	Draw the pin diagram of 8255 PPI.	2			Write an ALP using 8086 microprocessor to find
	(C)	Explain BSR mode control word format	of 8255		(4)	the maximum number between two 16-bit numbers
		PPI with suitable diagram.	4			6
	OR					
6.	(P)	Different between memory mapped I/O and I/O				
		mapped I/O seheme.	5			
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