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B.C.A. (Part—II) Semester—III Examination 3ST5 : ELECTRONICS

Time: Three Hours] [Maximu		ree Hours] [Maximum Marks:	m Marks : 60	
	N.B	:— (1) All questions are compulsory.		
		(2) All questions carry equal marks.		
1.	(a)	Draw block diagram of microcomputer system and explain the functions of each block.	ě	
			6	
	(b)	Explain instruction format of 8085 microprocessor.	6	
		OR		
2.	(p)	Draw and explain timing diagram of memory read bus cycle.	6	
	(q)	What is Flag? Explain the functions of different flags of 8085 microprocessor with suital	ole	
	7805	diagram.	6	
3.	(a)	Write an ALP using 8085 mp for multiplication of two 8 bit numbers and draw flow cha	32	
	<i>a</i> >	W. T. S (6	
	(b)	Explain stack and stack pointer with suitable example.	6	
,	()	OR	٠,1	
4.	(p)	Give the classification of instruction set and explain the arithmetic group of instruction w	ith	
	(a)	suitable example. What is addressing mode? List the addressing modes of 8085. Explain any two modes we	O ith	
	(q)	What is addressing mode? List the addressing modes of 8085. Explain any two modes we suitable example.	6	
5.	(a)	Explain synchronous and asynchronous data transfer scheme.	6	
J.	(b)	Explain control word format in I/O and BSR mode of 8255 PPI with suitable diagram		
	(0)	Explain control word format in 1/O and BSR mode of 0255 111 with Suitable diagram	6	
		OR		
6.	(p)	Differentiate between memory mapped I/O and I/O mapped I/O scheme.	6	
	(q)	Draw the block diagram of 8255 PPI and explain the function of each block.	6	
7.	(a)	Explain the status flag of 8086 microprocessor.	6	
	(b)	Explain the following:		
	, J	(i) Pointer register		
		(ii) Index register		
		(iii) Segment register.	6	
		OR		
8.	(p)	Draw and explain pin diagram of 8086 microprocessor.	6	
	(q)	Explain operating modes of 8086 microprocessor.	6	
9.	(a)	Explain various addressing modes of 8086 microprocessor with suitable example.	6	
	(b)	Write ALP for subtraction of two 8-bit numbers and draw flow chart.	6	
		OR		
10.	(p)	Write ALP using 8086 mp for multiplication of two numbers and draw flow chart.	6	
	(q)	Explain the following instructions:		
		(i) MOV		
		(ii) LDS		
		(iii) POP	6	