Bachelor of Science (B.Sc.I.T.) Semester—III (C.B.S.) Examination MICROPROCESSOR AND ALP

Paper—I

Tim	e : T	hree Hours] [Maximum Marks	: 50
	N.B	All questions are compulsory and carry equal marks. (2) Draw labelled diagrams wherever necessary.	
	EIT	HER	
1.	(A)	Draw a well labelled block diagram of 8086 µp and give its main features.	5
	(B)	Explain flag register format of 8086 µp.	5
	OR		
	(C)	Write an assembly language programme using instructions of 8086 μp to add the constant	s of
		an array containing 10 numbers.	5
	(D)	Explain any three string manipulation instructions of 8086 µp with suitable example.	5
	EIT	THER	
2.	(A)	What is PPI ? Explain mode-o operating of 8255.	5
	(B)	What are the different problems associated with interfacing keyboard? How they can be avoid Explain.	led?
	OR		
	(C)	What is DMA? What are its advantages? Explain its operations in burst mode.	5
	(D)	What is static RAM? How can it be interfaced with 8086? Explain with a block diagram	m. 5
	EIT	HER	3
3.	(A)	Explain interrupt structure of 8086 µp.	5
	(B)	Write a short note on RS 232 C.	5
	OR		
	(C)	Differentiate between synchronous and asynchronous data transfer.	5
	(D)	What is USART? Draw a block diagram of internal architecture of 8251 USART.	5
	EIT	HER	
4.	(A)	Draw a block diagram of internet architecture of $80286~\mu p$ and explain each block in brid	ef.
			5
	(B)	Explain the concept of paging and segmentation of 80386 µp.	5
	OR		
	(C)	What is RISC ? Explain its architecture in brief.	5
	(D)	Explain Real mode of operation of 80386 μp.	5
5.	Atte	empt ALL:	
	(A)	Write a short note on Assembler directives.	21/2
	(B)	Explain Minimum mode of operation of 8086 µp.	21/2
	(C)	What is USB ? Explain.	21/2
	(D)	Give any five features of Pentium.	21/2