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B.C.A. Part-II Semester-IV Examination ADVANCE MICROPROCESSORS AND MICROCONTROLLER

Paper: 4ST5

Time	e : T	hree Hours] [Maximum Mark	[Maximum Marks: 60	
Note	:	(1) ALL questions are compulsory.		
		(2) All questions carry equal marks.		
		(3) Draw neat sketches wherever necessary.		
1.	(a)	Enlist the features of 80286 microprocessor.	4	
	(b)	Draw the neat diagram of 80286 and explain it.	8	
		OR		
2.	(a)	Explain indexed and based plus index addressing mode with suitable example.	6	
	(b)	Describe the working of 80286 in real mode.	6	
3.	(a)	What is paging? How it is achieved in 80386?	6	
	(b)	Explain flag register in 80486 microprocessor.	6	
		OR		
4.	(a)	Explain protected mode of 80386 microprocessor.	6	
	(b)	Explain register organisation of 80586 microprocessor.	6	
5.	(a)	Draw a block diagram of 8051 and explain it.	6	
	(b)	Explain interrupts in 8051 microcontroller.	6	
		OR		
6.	(a)	Give the comparison between microprocessor and microcontroller.	6	
	(b)	Explain flags of 8051 controller.	6	
7.	(a)	Describe the addressing modes of 8051.	8	
	(b)	Write ALP for addition of two 8 bit numbers.	4	
		OR		
8.	(a)	Explain the classification of instruction set of 8051.	6	
	(b)	Write ALP for division of two 8 bit numbers.	6	
9.	(a)	Explain serial and parallel communication of 8051.	6	
	(b)	Draw suitable diagram of interfacing of DAC with 8051.	6	
		OR		
10.	(a)	Explain interfacing of 8051 with 8255 PPI.	6	
	(b)	Explain power saving mode of 8051.	6	



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