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DISTANCE EDUCATION

B.C.A./B.C.A. (Lateral) DEGREE EXAMINATION, MAY 2011.

MICROPROCESSORS AND PERSONAL COMPUTERS

						(20	03 onward	ds)				
Time	: Three hours				Maximum: 100 marks							
			Answer any FIVE questions. All questions carry equal marks.									
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									({	$5 \times 20 = 100)$		
		(a) stem.	With (10)	ı a	neat	block	diagram	explain	the	microprocessor	based	
	(b) Write short notes					on MSI and VLSI.				(10)		
2.	(a) Draw the functional block diagram of 8085 and explain it. (10)											
	(b) Explain in detail about interrupts.							(1	0)			
3.	(a) Explain in detail about Instruction formats.								(1	0)		
	(b) Explain the following instruction set with examples.											
	(i) Data trans				nsfer	nsfer group				5)		
		(ii)	Arit	nmet	tic gro	oup.			(5)		
4.	(a) With a neat flow chart write a program to find the 1's complement given number. (10)									nt of a		
	(b) Write a program to add two 8 bit numbers, the sum may be 8 bit. (10)											
5.	(a) Explain in detail about RAM and ROM. (10)									0)		
	(b) How can you expand memory size and explain the storage capacit magnetic disc. (10)									city of		
6.	(a) Explain in detail											
		(i)	The	men	nory n	napped	I/O schen	ne.	(5)		
		(ii)	The	I/O 1	nappe	ed I/O s	scheme.		(5)		
	(b) Briefly explain about direct memory access (DMA) data tra (10)								data transfer so	cheme.		

- 7. (a) Draw the internal organization of 80486 and briefly explain the function. (10)
 - (b) Explain in detail about VGA and SVGA video cards. (10)
- 8. (a) Explain in detail about active preventive maintenance procedures. (10)

(10)

(b) Explain the data backup system.