

		(d)	instruction is used for 16-bit addition.	1
			(i) ADD	
			(ii) ADI	
			(iii) ADC	
			(iv) DAD	
	(B)	Ansv	ver any two of the following:	
	` ,	(a)	Differentiate between Micro-controller and a Micro-processor.	3
		(b)	Explain the following:	3
			(i) Accumulator	
			(ii) Program Counter	
			(iii) Stack Pointer	
		(c)	Write a short note on MODEM.	3
2.	(A)	Ansv	ver any two:	
		(a)	Explain the function of following pins of 8085:	3
			(i) HLDA	
			(ii) SID	
			(iii) READY	
		(b)	Discuss in brief the members of X-86 Family begining from 80386 and upwards.	3
		(c)	Draw the memory register map, of Micro-controller 8051.	3
	(B)	Ans	wer any one:	
		(a)	Draw the labelled internal block diagram of 8085 Micro-processor.	4
		(b)	Explain in brief programming model of X-86 Family.	4
3.	(A)	Ans	wer any two:	
		(a)	Explain any three Addressing Modes of 8085 with examples.	3
		(b)	Explain in short:	3
			(i) Star Topology	
			(ii) Bus Topology	
			(iii) Ring Topology	2
17 (0 1		(c)	Distinguish between LAN and WAN. 2 [Con	3
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	(B)	Answer any one:	
		(a) What is an Vectored Interrupt? State the different hardware interrupts with their priorities and branching adresses.	4
		(b) Explain the advantages of following features of Pentium Processor:	4
		(i) Dual - Pipelining	
		(ii) Prefetching	
		(iii) Branch Prediction	
		(iv) Internal Data Bus	
4.	(A)	Answer any two:	
		(a) What is a Protocol? Explain the concept of TCP/IP Protocol.	3
		(b) Explain the structure of Fiber Optic Cable.	3
		(c) Draw the labelled diagram of X-86 family Flag Register.	3
	(B)	Answer any one:	
		(a) Discuss the Micro-controllers in 8051 family.	4
		(b) Write a note on Ethernet.	4
5.	Ans	wer any two:	
	(a)	Write an Assembly Language Program to multiply a number stored at	
	7	location 1050 with a number at location 1051. Result is 2-byte. Store result at locations 1052 and 1053.	5
	(b)	Write an Assembly Language program to transfer a block of memory starting from 1050H to 1059H to a new location starting from 1070H to 1079H.	5
	(c)	A two byte number is stored at location C000 H and C001 H. Write on Assembly Language Program to rotate this number to left side by 3 places and store the rotated number in BC register pair.	5
		OB	

OR

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- 5. (a) Write an Assembly Language Program to add 2 decimal numbers stored at 1050 H and 1051 H. Store result at 1052 H and 1053 H.
- 5
- (b) Accumulator contents of 8085 are B7H and register B contents are A5 H. What will be the effect of following instructions on the contents of Accumulator, when executed independently?

5

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- (i) ADI 05
- (ii) CMP B
- (iii) CMA
- (iv) XRA B
- (v) ORA B
- (c) Write an Assembly Language Program to increment the contents of alternate memory locations each by two from 1051 H to 1060 H.