

Instructions: (1) All question are compulsory.

- (2) Figures to the right indicate full marks.
- (3) Draw neat diagram wherever necessary.
- (4) Use of any type of calculator is not allowed.
- (5) Comments are must in assembly language program.

1.	(A)	Sele	ct the correct alternative and rewrite the following	
		-(0)-	is non-maskable interrupt in 8085.	
			(i) RST 5.5	
			(ii) RST 6.5	
			(iii) RST 7.5	
			(iv) TRAP	
		(b)	The length of instruction MVI reg. data is	1
			(i) 1 Byte	
			(ii) 2 byte	
			(iii) 3 byte	
			(iv) 4 byte	
		(c)	The 8051 Micro-controller pan address program memory.	1
			(i) 8 k byte	
			(ii) 16 k byte	
			(iii) 32 k byte	
			(iv) 64 k byte	
		(d)	Cable is insensitive of EMI.	
			(i) Co-axial	
			(ii) STP	
			(iii) UTP	
			(iv) Fiber Optic	

	(B)	Answer any two of the following:	
		(a) Write a note on evolution of Micro-processor.	3
		(b) Explain any three addressing modes of 8085 Micro-processor with	3
		one example. (c) What is HUB ? Explain Active and Passive HUB.	3
2.	(A)		
-	(/1)	(a) What is multiplexed BUS in 8085 ? Give its advantages.	3
		(b) Explain following instruction of 8085 Micro-processor.	3
		(i) CMA	
		(ii) RRC	
		(iii) STC	
		(c) Define Topology. Explain Physical and Logical Topology.	3
	(B)	Answer any one of the following:	
		(a) Define following registers of Micro-processor 8085.	4
		(i) Accumulator	
		(ii) STACK Pointer	
		(iii) Program Counter	
		(iv) Instruction Register	
		(b) Explain following terms related to pentium processor:	4
		(i) Dual Pipeline	
		(ii) Branch Prediction	
		(iii) On chip cache	
		(iv) 64 bit data BUS	
3.	(A)	Answer any two of the following:	
		(a) Explain any three features of 8085 Micro-processor.	3
		(b) Explain the function of following pins of 8085 Micro-processor:	3
		(i) X1, X2	
		(ii) CLK (out)	
		(iii) RD	
		(c) List any six features of 8051 Micro-controller.	3
	(P)	Answer any one of the following:	
		(a) Explain memory map of 8051 Micro-controller.	4
			4
		(b) Explain Contention and Polling Access Methods.	

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	(A)	Answer any two of the following :				
		(a) Flag register contain data C5H interpret its meaning.				
		(b) The accumulator contain data 58H and register B contain data 07H. What will be the content of Accumulator after execution of following instruction independently:	3			
		(i) ADD B	3			
		(ii) ORA B				
		(iii) ANA B				
		(c) Explain Co-axial Cable in detail.	3			
	(B)	Answer any one of the following :				
		(a) What is Interrupt? List Hardware Interrupts according to Priority. Explain maskable and non maskable in interrupts	4			
		(b) Explain the following characteristic of Transmission media:	4			
		(i) Installation Deficultes				
		(ii) EMI				
		(iii) Bank Width				
		(iv) Attenuation				
	Ann	wer any two of the following :				
	(a)	A block of data is stored from memory location D001H. Length of block is stored at D000H. Write a program to find occurrences of data 02H in given block. Store the number of occurrences at Memory Location D100H.	5			
	(b)	A block of data is stored from memory location D001H to D005H. Copy				
	(c)	Write a program to subtract 3 Byte integer in register EHL from another 3 Byte integer in BCD. The result should be placed in BCD register keeping the integers in EHL undistrubed.	5			
		OR				
	Ame	wer any two of the following :				
	(a)	 (a) A block of data is stored in memory location from sometiment of each data is stored at 2FFFH, write a program to find 2's compliment of each data in a block and store the result from memory location 4100H. (b) A block of data is stored from memory location C001H and length is stored in C000H. Write a program to find the sum of series and store the sum in C000H. 				
	(b)					
	(c) Write a program that divides two 1 byte hex number where the divide					
		is stored in 4060H and divisor in 400H, in next two consecutive memory location respectively.				