

		MARCH 2012		
Q1	(A)	Select correct alternative and rewrite the following :	(4)	
	(a)	In 8085 microprocessor,.....pin is the only output terminal of interrupt control block. (1) TRAP (2) INTR (3) RST 7.5 (4) INTA		
	(b)is a characteristic feature of 8051 micro-control. (1) Four 8-bit I/O Ports (2) Two 8bit I/O Ports (3) 4kB RAM (4) Four External Interrupts		
	(c)	The instruction JNZ of 8085 microprocessor is.....type of instruction (1) Branching (2) Conditional Branching (3) Arithmetic (4) Data Transfer		
	(d)	The installation cost of.....cable is maximum. (1) STP (2) UTP (3) Fiber optic (4) Co-axial		
Q1	(B)	Answer any two of the following :	(6)	
	(a)	Explain any three primary functions of the CPU of a micro-computer.		
	(b)	Explain with suitable example examples the (1)Register indirect and (2) implied addressing Modes of 8085 microprocessor.		
	(c)	Explain in brief the six important characteristics of transmission media.		
Q2	(A)	Answer any two of the following:	(6)	
	(a)	In case of a microprocessor Architecture, explain the terms in brief : (1)Address bus (2)Data bus (3)Control bus		
	(b)	Explain the following instruction of 8085 microprocessor with suitable examples (1) SBB M (2) CPI Data (3) XTHL		
	(c)	Explain Fibre optic cable with a suitable figure		
Q2	(B)	Answer any two of the following:	(6)	
	(a)	Compare any four attributes of 486 DX with Pentium processor.		
	(b)	Explain use of extended register pairs BC and HL of 8085 microprocessor as pointers With the help of suitable examples.		
Q3	(A)	Answer any two of the following :	(6)	
	(a)	Describe in brief the function of the following pins of 8085 microprocessor : (1)RD (2) WR (3) ALE		
	(b)	The accumulator of 8085 contains data B7h.What will be its contents after execution Of the following instructions independently ? (1) ORI 58 H (2) CMA (3) ANI E3 H		
	(c)	Compare at least three characteristic of UTP and STP cables.		
Q3	(B)	Answer any one of the following :	(4)	
	(a)	What are vectored interrupts ?what are maskable and non-maskable interrupts? State all Hardware interrupts of 8085 microprocessor with their priorities and branching or vector Addresses.		
	(b)	Give any eight important features of 8051 microcontroller.		
Q4	(A)	Answer any two of the following :	(6)	

	(a)	Explain the following instructions of 8085 microprocessor with suitable example. DAA (2) DAD		
	(b)	Explain stack operation in case of 8085 microprocessor with the help of suitable Instructions like PUSH and POP.		
	(c)	Compare 8052 microcontroller with 8051 microcontroller.		
Q4	(B)	Answer any one of the following :	(4)	
	(a)	Explain STAR Topology with necessary diagram . state its advantages .		
	(b)	Explain the following devices used in computer networking : 1) Modem (2) Repeater		
Q5	(A)	Answer any two of the following :	(10)	
	(a)	An 8 bit number is stored in memory location 4400H. Write an assembly language program To count “Zero” in the given number. Store count in memory location 4500H.		
	(b)	A series of number are stored in memory location from C001H to C008 H . write a program In assembly language to find smallest number among these number. Store smallest number In location C009H.		
	(c)	Write an assembly language program to counter number of odd data bytes occurring in a Block starting from memory location A001H to A0FFH. Store result at memory location B000H .		
		OR		
Q5	(B)	Answer any two of the following :	(10)	
	(a)	An hex number is stored at location AB00H. write an assembly language program to Interchange its digit. The new number is to be stored at AB01H. Add original number With new number and store result at location ABCDH.		
	(b)	Write an assembly language program to add two BCD numbers stored at location AB00H and AB01H. Place BCD result in location AB02H and onwards starting with LSB.		
	(c)	Write a program in assembly language to find 2's complement of 8 bit number stored In memory location C000H. store result at memory location C001H.		