

		<b>MARCH 2013</b>		
<b>Q1</b>	<b>(A)</b>	<b>Select correct alternative and rewrite the following :</b>	<b>(4)</b>	
	(a)	ALU is .....bit unit in 8025 microprocessor. (1) 8 (2) 16 (3) 32 (4) 64		
	(b)	The flag bit that gets affected on execution of RCC instruction in 8085 Processor is ..... (1) zero (2) Parity (3) Carry (4) All		
	(c)	..... is Microcontroller chip . (1)8085 (2) 8086 (3) 8051 (4) Pentium		
	(d)	.....cable type is ideal for connecting between two building. (1) UTP (2) STP (3) co-axial (3) flat		
<b>Q1</b>	<b>(B)</b>	<b>Answer any two of the following :</b>	<b>(6)</b>	
	(a)	Write a short note on Interrupts in 8085 Microprocessor.		
	(b)	Explain any three addressing modes of 8085 Microprocessor with an example Of each.		
	(c)	Explain various application of microcontroller.		
<b>Q2</b>	<b>(A)</b>	<b>Answer any two of the following:</b>	<b>(6)</b>	
	(a)	Explain functions of following registers of 8085 Microprocessor : (1) Accumulator (2) flag (3) Program counter		
	(b)	Explain the following instruction of 8085 Microprocessor with suitable example of Each : (1) XTHL (2) DAD rP		
	(c)	Explain the following characteristics of transmission media : (1) Bandwidth (2) Band Usage (3) Attenuation		
<b>Q2</b>	<b>(B)</b>	<b>Answer any two of the following:</b>	<b>(6)</b>	
	(a)	) Draw Block diagram of 8085 microprocessor .		
	(b)	Compare any four attributes of UTP and Optical fiber cable .		
<b>Q3</b>	<b>(A)</b>	<b>Answer any two of the following :</b>	<b>(6)</b>	
	(a)	The flag register of 8085 microprocessor contain the data AAH ,Interpret its meaning .		
	(b)	Describe in brief the functions of the following pins of 8085 microprocessor : (1) IO/M (2) SID (3) HLDA		
	(c)	Define Bus ,Ring and Star Topology . Draw simple diagram for each .		
<b>Q3</b>	<b>(B)</b>	<b>Answer any one of the following :</b>	<b>(4)</b>	
	(a)	Explain the following instruction diagram : (1) RLC (2) RRC (3) RAL (4) RAR		
	(b)	Compare any four attributer of 80286 and Processors.		
<b>Q4</b>	<b>(A)</b>	<b>Answer any two of the following :</b>	<b>(6)</b>	
	(a)	The accumulator of 8085 processor contains data B8H and register B contain 44H. what Will be the content of accumulator after execution of each of the following instruction Independently ? (1)ORI FOH (2) ANA B (3) XRI OFH		

	(b)	Explain the following instruction of 8085 microprocessor with suitable example of each. (1) STA add r (2) ADD r (3) CMP r		
	(c)	Explain Hub and Repeater in detail .		
<b>Q4</b>	<b>(B)</b>	<b>Answer any one of the following :</b>	<b>(4)</b>	
	(a)	Explain advantages of the following features of the Pentium : (1) Dual pipelining (2) On Chip Caches (3) Branch Prediction (4) 64-bit Data Bus		
	(b)	What is meant by protocol ? Explain concept of TCP/IP Protocol .		
<b>Q5</b>	<b>(A)</b>	<b>Answer any two of the following :</b>	<b>(10)</b>	
	(a)	Write assembly language program to count number of even data bytes occurring in a block Stored from memory location C051H and onwards . The length of block is stored in location C050H.Stored result in location C060H.		
	(b)	Write an assembly language program to perform multiplication of two 8-bit number where Multiplicand is stored at the memory location C051H and C052H and multiple is stored at C053H.The result is to be stored at memory location address C054H to C055H. (Note: 8-bit multiplicand is extend to 16-bit).		
	(c)	A hex numbers stored at location 3000H.Write an assemble language program to inter- Change its digits. The new number is to be stored at 3001 H. Add original number with New number and store result at location 3010H.		
		<b>OR</b>		
<b>Q5</b>	<b>(B)</b>	<b>Answer any two of the following :</b>	<b>(10)</b>	
	(a)	Write assembly language program to count occurrence of the data.ABH in a memory. Block starting from 4000H to 400FH.store count at memory location 4500H.		
	(b)	A block of data is stored in memory location from 7500H to 75FFH.Write an assembly. Language program to transfer block in reverse order to memory location 7600H and Onwards.		
	(c)	Write an assembly language program to find largest element in block of data. The length is in memory location D000H and block begins in memory location D002H. store maximum in D000H. assume that all number are 8-bit unsigned binary number.		