

CS - 09 : Computer Organization & Architecture (Information Technology) (New Course)

Faculty Code: 003 Subject Code: 1042003

Tim	ne : 2	$2\frac{1}{2}$ H	[ours]	[Total	Marks :	70
1	(A)	Answer the following:				4
		(1)	What is logic gate?			
		(2)	What is boolean function?			
		(3)	List the name of universal gate.			
		(4)	Explain digital computer.			
	(B)	Ans	wer in brief : (Any One)			2
		(1)	Explain Combinational Circuit.			
		(2)	Explain Half Subtractor.			
	(C)	(C) Answer in brief : (Any One)				3
		(1)	Explain min term.			
		(2)	Explain flip flop.			
	(D)	Ans	wer in brief: (Any One)			5
		(1)	What is logic Gate? Explain in de	tail.		
		(2)	Explain K'map in detail.			
2	(A)	Answer the following:				4
		(1)	What is IC?			
		(2)	Decoder means			
		(3)	Multiplexer is also called			
		(4)	De'mux means			
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	(B)	Ans	wer in brief : (Any One)	2
		(1)	Explain 3*8 line decoder	
		(2)	Explain encoder	
	(C)	Ans	wer in brief : (Any One)	3
		(1)	Explain mux in detail	
		(2)	Explain counter in detail.	
	(D)	Ans	wer in brief : (Any One)	5
		(1)	Explain binary register in detail.	
		(2)	Explain de-mux in detail.	
3	(A)	Ans	wer the following:	4
		(1)	101010 Perform 1'S complement.	
		(2)	101011 Perform 1'S complement.	
		(3)	111110 Perform 2'S complement.	
		(4)	1010 Perform 2'S complement.	
	(B)	Ans	wer in brief : (Any One)	2
		(1)	Explain floating point representation	
		(2)	01010*00111	
	(C)	Ans	wer in brief : (Any One)	3
		(1)	Explain parity bit.	
		(2)	Explain fixed point representation	
	(D)	Ans	wer in brief : (Any One)	5
		(1)	Explain Mantissa and Exponent.	
		(2)	Explain Number System	
4	(A)	Ans	wer the following:	4
		(1)	ALU means	
		(2)	Sel A Control	
		(3)	Sel B Control	
		(4)	How many types of control signal are available in DMA?	
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	(B)	Ans	wer in brief : (Any One)	2		
		(1)	Explain ALU			
		(2)	Explain CPU.			
	(C)	Ans	wer in brief : (Any One)	3		
		(1)	Explain a register.			
		(2)	Explain memory stack.			
	(D)	Ans	wer in brief : (Any One)	5		
		(1)	Explain general register org.			
		(2)	Explain interrupt.			
5	(A)	Answer the following:		4		
		(1)	Data bus means			
		(2)	What is input output interface?			
		(3)	Explain system bus.			
		(4)	Explain internal bus.			
	(B)	Answer in brief : (Any One)		2		
		(1)	Explain memory bus.			
		(2)	Explain input output bus.			
	(C)	Answer in brief: (Any One)		3		
		(1)	Explain I.O.P.			
		(2)	Explain DMA transfer.			
	(D)	Ans	Answer in brief: (Any One)			
		(1)	What is DMA? Explain working of DMA			
		(2)	Explain DMA controller.			