

2	(a)	Attempt following question:	
		(1) In Shift Register which Flip flop is used?	
		(2) 3 to 8 line Decoder is also called Decoder?	
		(3) What is IC?	
		(4) What is Multiplexer?	
	(b)	Attempt following question: (any one)	2
		(1) What is Register? List out all types of Register.	
		(2) Write down the application of Multiplexer.	
	(c)	Attempt following question: (any one)	3
		(1) Explain Buffer register in detail	
		(2) Explain Octal - To - Binary Encoder in detail.	
	(d)	Attempt following question: (any one)	5
		(1) Explain 3 to 8 line Decoder in detail.	
		(2) Explain Bi-directional shift register with parallel load.	
3	(a)	Attempt following question:	4
		(1) Perform 1's complement of 101001010?	
		(2) In signed Magnitude representation system, Orepresent number?	
		(3) The decimal equivalent of binary number 10101 is ?	
		(4) What is Error Detection Code?	
	(b)	Attempt Following question: (any one)	2
		(1) Perform 1101 * 110.	
		(2) Perform 1010 / 101.	
	(c)	Attempt following question: (any one)	3
		(1) Explain Term Overflow, Underflow, Normalization.	
		(2) Explain 2's Complement method in detail with example	

	(a)	Attempt Following question: (any one)		9
		(1)	What is Parity Bit? Explain P(odd) and P(even) in detail.	
		(2)	Explain floating point representation number system in detail.	
4	(a)	Attempt following question:		4
		(1)	Stack Works on algorithm.	
		(2)	How many control word in General Register Organization?	
		(3)	register is multipurpose register.	
		(4)	In prefix notation the operator is placed the operand.	
	(b)	Atte	empt following question: (any one)	2
		(1)	Convert expression into prefix Notation. (A+B) / (C-D)	
		(2)	Write a POP operation algorithm of stack.	
	(c)	Atte	empt following question: (any one)	3
		(1)	Write a short note on ALU.	
		(2)	What is Interrupt explain in detail with types.	
	(d)	Atte	empt Following question: (any one)	5
		(1)	Explain General Register Organization in detail.	
		(2)	Explain Stack Organization in detail.	
5	(a)	Atte	empt following question:	4
		(1)	In most of computer CPU is and IOP is	
		(2)	BG stands for ?	
		(3)	In IOP computer is divide into module(Parts)?	
		(4)	State true or false. RD(read) and WR(write) lines are bi-directional.	

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- (b) Attempt following question: (any one)
  (1) Explain term Burst Transfer, Cycle Stealing.
  (2) Explain Programmed input-output.
- (c) Attempt following question : (any one) 3
  - (1) Explain IOP in detail.
  - (2) Explain Address register, Word count Register and Control Register in detail.
- (d) Attempt following question: (any one) 5
  - (1) Explain DMA Transfer in detail.
  - (2) Explain DMA controller in detail.