Total	No.	of Questions : 4] SEAT No. :	SEAT No. : [Total No. of Pages : 2	
PA-	28	[Total No. of Pages		
		[5931]-39		
		S.E. (Information Technology)		
	(2	214445): BASICS OF COMPUTER NETWORK		
		(2019 Pattern) (Semester - I)		
Time	· 1 I	Hour] [Max. Marks:	30	
		ns to the candidates :	30	
1100010	1)	Answer Q1 or Q2, Q3 or Q4.		
	2)	Neat diagrams must be drawn wherever necessary.		
	<i>3</i>)	Figures to the right indicate full marks.		
	<i>4</i>)	Assume suitable data, if necessary.		
		8).		
Q 1)	a)	Draw ISO/OSI model and explain functions of following layers:	[5]	
		i) Physical		
		ii) Data link		
		iii) Network layer		
	• `		0	
	b)	List and explain different types of Transmission Impairment.	[5]	
	c)	Encode the following binary stream [1 0 1 0 0 0 1 1 0] into NRZ	ŞL,	
		NRZ-I.	[5]	
		OR		
(12)	-)	English different addressing a law as in TCD/ID as CD	r <i>e</i> n	
Q2)	a)	Explain different addressing schemes in TCP/IP model.	[5]	
	b)	What is mean by Delta Modulation? Explain Distortion in De	elta	
		Modulation.	[5]	
	c)	Write a short note on Bus topology & Star topology.	[5]	

P.T.O.

Q 3)	a)	What is CRC? Generate the CRC code of message 1101011101. Given generator Polynomial $g(x) = x^3 + x^2 + 1$.	ven [5]			
	b)	Explain the working mechanism of	[5]			
		i) Go back-N ARQ				
		ii) Selective Repeat ARQ				
	c)	What is hamming code? Also find Hamming Code word for follow				
		Data word 1001011 using even parity. OR	[5]			
Q4)	a)	Explain with example fixed-size framing and variable size framing.	[5]			
	b)	Explain Two dimensional parity check.	[5]			
	c)	Discuss the concept of redundancy in error detection and correction	n.[5]			
		**************************************	867.73 67.73 87.73			
[5931]-39						