Seat No.	:	

P.T.O.

MT-129

March-2019

TY Integrated M.Sc. (CA & IT), Sem.-VI

Data Communication & Networking

[Max. Marks :	70
	14
Answer the following questions: (Any seven) (1) What is Point to point and Multipoint connection? (2) What is Flow Control? (3) What is Frequency and Period? (4) Do Byte stuffing for data "DCN@@@@##COMMUNICATION@@###@#" where@ is flag and # is esc. (5) Do Bit stuffing for data "0111 1111 0011 1111 1100 0111 1110 "where 0111 1110 is flag. (6) Write default subnet mask of network class A,B and C. (7) A digital signal has 8 levels. How many bit send per level? (8) Find network id and host id of following classful IP address (i) 110.1015.20 (ii) 180.25.10.20	14
 Explain the following in brief: (Any two) (1) Explain Go Back N sliding window protocol with example (2) What is Error Detection Method? Calculate CRC (7,4) where data word is 1001 and divisor is 1011. (3) What is Checksum? Calculate checksum for data 4,3,6,2,5,7,8. Explain Block coding 	12 2
	Explain the following: (Any seven) (1) Latency (2) Data Flow mode (3) Two dimension parity check (4) Repeater (5) Bandwidth (6) Piggybacking (7) Classless IP address (8) Socket Answer the following questions: (Any seven) (1) What is Point to point and Multipoint connection? (2) What is Flow Control? (3) What is Frequency and Period? (4) Do Byte stuffing for data "DCN@@@##COMMUNICATION @@###@#" where@ is flag and # is esc. (5) Do Bit stuffing for data "0111 1111 0011 1111 1100 0111 1110 "where 0111 1110 is flag. (6) Write default subnet mask of network class A,B and C. (7) A digital signal has 8 levels. How many bit send per level? (8) Find network id and host id of following classful IP address (i) 110.1015.20 (ii) 180.25.10.20 Explain the following in brief: (Any two) (1) Explain Go Back N sliding window protocol with example (2) What is Error Detection Method? Calculate CRC (7,4) where data word is 1001 and divisor is 1011. (3) What is Checksum? Calculate checksum for data 4,3,6,2,5,7,8.

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4.	(A)	Ansv	wer the following questions: (Any two)	12
		(1)	What is Dynamic Routing? Explain Link State Routing algorithm.	
		(2)	What switching network? Explain Virtual Circuit Switching Network.	
		(3)	What is Transparent Bridge? Explain self learning process of Transparent bridge with example.	
	(B)	Expl	ain Sinewave	2
5.	(A)	A) Answer the following questions : (Any two)		
		(1)	What is Transmission Impairment? Explain different type of Transmission Impairment in detail.	
		(2)	Explain Circuit Switching Network.	
		(3)	Explain Distance Vector routing algorithm.	
	(B)	Expl	ain Port address.	2

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