

Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058, India (Autonomous College Affiliated to University of Mumbai)

Re-Examination Synoptic/Breakup

June-July 2019

Max.Marks: 60

Class: B.E.

Course Code: EXC704

Duration: 3Hrs

Semester: VII Branch: ETRX

Name of the Course: Computer Communication and Networks

Instruction:

(1) All questions are compulsory

(2) Draw neat diagrams wherever required

(3) Assume suitable data if necessary

(3) CO - Course Outcomes

For five channels, we need at least four guard bands. This means that the required bandwidth is at least 5 x 500 + 4 x 50 = 2700 kHz (04 Marks) Synchronous Transmission: With Synchronous Transmission all the letters or data in one group of data is transmitted at one time as a block of data called a frame or packet, The start and end of each packet sometimes is marked by adding synchronization characters (SYN) at the start/end of each packet.(02Marks) Problem of transparency. (03Marks) Two error detection mechanisms (03Marks) OR OR Q.1 (b) Error control and Flow control (02 Marks) Compare and contrast byte-stuffing and bit-stuffing. (04 Marks) IP addressing and Subnetting (02 Marks) IP addressing concept and various classes of IP address (04 Marks). 1)C = B log2 (1 + SNR) = 3200 log2(3063) = 37058 Kbps This means that the highest bit rate for a telephone line is 37058 kbps. If we want to send data faster than this, we can either increase the bandwidth of the line of improve the SNR.(3 Marks) 2) C = B log2 (1 + SNR) = B log z (1 + 0) = B log2 1 = B x 0 = 0. This mean that the capacity of this channel is zero regardless of the bandwidth. In other words we cannot receive any data through this channel (3 Marks).		
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24hours(rounded)(03Marks)		T = 86,000sec(rounded) = 86,000sec = 1,433min =
		24hours(rounded)(03Marks)

