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TEST-1 EXAMINATION – FEB 2020

B.Tech VIth Semester (ECE)

COURSE CODE: 10B11EC611

MAX. MARKS: 15

COURSE NAME: Telecommunication Networks

COURSE CREDITS: 4

MAX. TIME: 1HRS

Note: All questions are compulsory. Carrying mobile phone during examinations will be treated as a case of unfair means.

1. What do you mean by Physical Topology? Explain different types of topology.(CO-1) [3]
2. (a) Elaborate the functions of data link layer in OSI model. (CO-1) [1.5]
(b) How is logical address different from port address in TCP/IP model? (CO-1) [1.5]
3. How will you manage data rates in TDM? (CO-2) [3]
4. The minimum number of columns in a datagram, network is two; the minimum number of columns in a virtual-circuit network is four. Explain the reason for this. (CO-2) [3]
5. Ten sources, seven with a bit rate of 250kbps and three with a bit rate of 400kbps are to be combined using multilevel TDM with no synchronizing bits. Answer the following questions about the final stage of multiplexing: (CO-1) [3]
 - a) What is the size of a frame in bits?
 - b) What is the frame rate?
 - c) What is the duration of a frame?
 - d) What is the data rate?
