Q.6 (a) Explain the bus type topology and ring topology networks. Compare their performance.

(b) Discuss various IEEE standard for LAN.

Q.7 (a) What is deadlock? Discuss some deadlock avoidance technique.

(b) Explain ATM and frame relay.

Q.8 Write a short note (any three) :

(a) TCP/IP protocol

(b) USB LAN

(c) Congestion control

(d) Parity check

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Enroll No…………………

EC-102
M.Tech. (DC)–I Sem (Reg./Ex.)
Examination, March.-2021
Data Communication and Computer Networks
Time: Three Hours

Maximum Marks:70

Note: Attempt any five questions. (Each question carries equal marks)

Q.1 (a) Discuss about vertical and longitudinal redundancy check code and its error detecting capability.

(b) Compare and analyze the performance of different ARQ techniques of error control.

Q.2 What is framing in data link layer? Explain the different method of framing in data link layer.

Q.3 (a) Explain the cyclic redundancy check with taking a suitable example.

(b) Discuss about RS-232C and X.21 standard.

Q.4 Discuss various ARQ technique for error control and their comparison and performance analysis.

Q.5 (a) State and explain Bellman Ford algorithm.

(b) What is an error? Explain the types of errors.