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10EC/TE71

Seventh Semester B.E. Degree Examination, Feb./Mar. 2022 Computer Communication Networks

Time: 3 hrs.

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

PART - A

- 1 a. Discuss the functions of following layers of OSI model with relevant diagrams:
 - i) Physical layer
 - ii) Date link layer
 - iii) Transport layer
 - iv) Application layer. (12 Marks)
 - b. Explain the cable TV networks for data transfer.

(08 Marks)

- 2 a. Discuss the sliding window concept of GO-BACK-N ARQ with relevant diagrams.
 - (10 Marks)

b Explain the two approaches of variable size framing.

- (10 Marks)
- 3 a. Explain the operation and vulnerable time of pure ALOHA networks. (08 Marks)
- b. Discuss three persistence methods of CSMA. (06 Marks)
 - c. Discuss the concept token parsing.

- (06 Marks)
- 4 a. Explain the four common implementation of standard Ethernet. (08 Marks)
 - b. Discuss two kinds of services of IEEE 802.11 standard. (06 Marks)
 - c. Explain the frame of 802.3 MAC frame. (06 Marks)

PART - B

- 5 a. Discuss Bus backbone and star back bone networks. (06 Marks)
 - b. Explain the concept of virtual LANs.

(06 Marks)

c. Discuss spanning tree formation with relevant diagrams.

- (08 Marks)
- 6 a. Explain the class full addressing of IPV4 Addresses.

(08 Marks)

b. Discuss the network addresses and its hierarchy levels.

(06 Marks)

c. Explain the advantages of IPV6 over IPV4.

- (06 Marks)
- a. Explain the types of routing tables and common fields in a routing table. (08 Marks)
 - b. What is a distance vector routing? Discuss three different techniques of distance vector routing. (12 Marks)
- 8 a. Discuss the user datatgram format.

(06 Marks)

b. Explain the TCP segment format.

(08 Marks)

c. Discuss the name addresses resolution.

(06 Marks)

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Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8=50, will be treated as malpractice.