Roll No.

6E6021

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6E6021

B.Tech. VI - Semester (Main&Back) Examination, April-2019
Computer Science &Engineering
6CS1A Computer Networks
Common with CS, IT

Time : 3 Hours

Maximum Marks : 80
Min. Passing Marks : 26

Instructions to Candidates:

Attempt any Five questions, selecting One question from each unit. All Questions carry equal marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly). Units of quantities used/calculated must be stated clearly.

UNIT-I

1. a) Explain distance vector routing algorithm in detail. (8)

   b) Differentiate leaky bucket and token bucket algorithm. (8)

(OR)

1. a) Describe the concept of congestion control in detail. (8)

   b) Explain Dijkstra routing technique. Write the complete procedure to find shortest path. (8)

UNIT-II

2. a) What is tunneling? Explain with example. (8)

   b) Differentiate IPv4 and IPv6.? (8)

(OR)

2. a) Explain fragmentation in networking. (8)

   b) Differentiate POP3 and IMAP protocols with suitable example. (8)

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UNIT-III

3. a) Explain the term "Upward Multiplexing" and "Downward Multiplexing" with reference to transport layer. (8)

    b) Discuss the term connection establishment in transport layer. (8)

(OR)

3. Explain the working of "Go-Back-N" protocol also compare it with "Selective Repeat" protocol.

    (16)

UNIT-IV

4. a) Draw and explain TCP header and segment structure. (8)

    b) Explain TCP service model in detail. (8)

(OR)

4. a) Explain the concept of Round Trip Time (RTT) and Retransmission Time Out (RTO). (8)

    b) Explain the working of transport layer in internet. (8)

UNIT-V

5. a) What is proxy server and how it is related to HTTP. (8)

    b) Draw and explain Domain Name System (DNS) record structure. (8)

(OR)

5. Write Short Notes on the followings: (2×8=16)

    a) Compare SMTP and HTTP.

    b) Explain File Transfer Protocol (FTP) and P2P File Sharing.

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