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6E6021

B.Tech. VI Semester (Main/Back) Examination, May-June 2015 Computer Science 6CS1A Computer Networks Common for IT

Time: 3 Hours

Maximum Marks: 8

Min. Passing Marks: 2

Instructions to Candidates:

Attempt any five questions, selecting one question from each unit. All question carry equal marks. (Schematic diagrams must be shown wherever necessar, Any data you feel missing suitably be assumed and stated clearly. Units a quantities used/calculated must be stated clearly.

Unit - I

- 1. a) Explain distance vector routing algorithm and flow based routing algorithm.(1
 - b) Explain Link state routing algorithm with example.

(1

OR

- 1. a) Describe the concept of congestion control. Describe Token Bucket Algorithn
 (8)
 - b) List the policies of congestion prevention in transport data link and networ layer (8

Unit - II

2. a) What is tunneling and fragmentation? Explain it.

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b) Write short note on IPv4 and IPv6 packet format.

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- 2. a) Explain the following protocols:
 - i) RARP Vs BOOTP
 - ii) POP3 Vs IMAP
 - b) How are IP addresses assigned? Describe this with suitable example for

Unit - III

- 3. a) Explain the term "upward multiplexing" and "downward multiplexin reference to transport layer
 - b) Discuss the procedure of connection establishment in the transport l:

OR

- 3. a) Draw the format of the UDP header and explain in brief the various f
 - b) Briefly discuss the transport layer services

Unit - IV

- 4. a) Explain Quality of service for transport layer
 - b) Explain the TCP service model

OR

- 4. Describe the difference between a confirmed service and unconfirmed ser the following functions full into the category of confirmed service, unco service, both types or neither
 -) Connection establishment
 - ii) Data transfer in a connection oriented service
 - iii) Data transfer in a connectionless service

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- Connection release iv)
 - Justify your answer

(16)

Unit - V

Explain HTTP and its message formats. 5. a)

(8)

Explain architecture of world wide web. b)

Explain different services of application layer.

(a)

Explain the authoritative and non-authoritative DNS.

(b)