

Extc - VIII
Elec : TNM

1815117

B.E.(ELECTRONICS & TELE COMM ENGG)(SEM VIII) (CBSGS) INTERNET & VOICE COMMUNICATION

Q. P. Code : 13298

(3 Hours)

(Total Marks: 80

M.R. :

- (a) Question No.1 is compulsory.
 - (b) Total 4 questions need to be solved.
 - (c) Attempt any three questions from remaining five questions.
 - (d) Assume suitable data wherever necessary, justify the same.
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- 1.a Explain any one method to improve QoS. [5]
 - 1.b In the TCP state transition diagram, why do we have the TIME-WAIT state and why is its value equal to 2MSL? [5]
 - 1.c Why SSH is preferred over TELNET? Explain. [5]
 - 1.d Explain the fields that are related to fragmentation and reassembly of an IPv4 datagram. [5]
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- 2.a Discuss how Hypertext Transfer Protocol (HTTP) is used to access data on the World Wide Web. [10]
 - 2.b Explain FTP in detail. Mention its limitation and justify how these limitations are overcome in TFTP. [10]
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- 3.a Explain how TCP controls the congestion in the network using different strategies. [10]
 - 3.b An ISP is granted a block of addresses starting with 150.80.0.0/16. The ISP wants to distribute these blocks to 2600 customers as follows: [10]
 - The first group has 200 medium-size businesses; each needs approximately 128 addresses.
 - The second group has 400 small businesses; each needs approximately 16 addresses.
 - The third group has 2000 households; each needs 4 addresses.Design the sub blocks and give the slash notation for each sub block. Find out how many addresses are still available after these allocations.
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- 4.a Explain in detail RTP packet format. [10]
 - 4.b Explain the transition states of TCP with a neat diagram. [10]
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- 5.a Explain how voice is transmitted over packet switched network using H.323. [10]
 - 5.b Explain various characteristics of real-time audio/video communication. [10]
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- 6 (a) Discuss the different types of addresses used in the TCP/IP protocol. [5]
(b) The transport layer is responsible for process-to-process delivery of the entire message. Justify your answer. [5]
(c) Discuss DHCP operation when the client and server are on the same network or on different networks. [5]
(d) Discuss the two message access agents in brief [5]

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