6E6021

B. Tech. (Sem. VI) (Main & Back) Examination, April-May 2018
Computer Sc. & Engg.
6CS1A Computer Networks
CS, IT

Time : 3 Hours

rtuonline.com

Maximum Marks : 80
Min. Passing Marks : 26

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.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

1. NIL _____ .   2. NIL _____

UNIT - I

1. (a) What is routing ? Explain broadcast routing in detail.

8

(b) What is the basic requirement of network layer ? Explain its services in detail.

8

OR

1 (a) Explain leaky bucket algorithm in detail.

8

(b) What is load shedding ? Also discuss jitter control in brief.

8

UNIT - II

2 (a) What is tunneling ?

(b) What are the difference between IPV4 and IPV6 ?   8

                                                                      8

OR

2 (a) Describe a way to resemble IP fragments at the destination.

(b) Discuss mobile host and mobile IP in detail.   8

                                                                      8

UNIT - III

3 (a) Differentiate between multiplexing and demultiplexing.

(b) Explain UDP protocol in detail.   8

                                                                      8

OR

3 (a) What do you mean by perfectly reliable channel ? Explain lossy channel with bit error.

                                                                      10

(b) Explain flow control and buffering in detail.

                                                                      6

UNIT - IV

4 (a) Explain TCP service model in detail.

(b) What is Round Trip time ?   10

                                                                      6

OR

4 (a) How the TCP connection establishment process is done ? Discuss transmission policy in brief.

8

   (b) Explain TCP congestion control in detail.

8

UNIT - V

5 (a) What is DNS ?

8

   (b) Explain the working of file transfer protocol.

8

OR

5 Write short notes on : (any **two**)

   (a) Query Flooding

   (b) P2P file sharing

   (c) WWW and SMTP.

$2 \times 8 = 16$