6 Explain Broadcast and Multicast Routing with suitable examples. Differentiate ARP and RARP 6+4

7 Write short notes on:

i) Token Bucket algorithm

ii) SCTP 5+5

8 Explain DNS. Discuss some of its benefits and applications. 3+7

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B.Tech Even Semester Examination, May, 2025

Electronics & Communication Engineering

(6th Semester)

Course No: ECC-602

(Computer Network)

Full Marks: 50

Pass Marks: 25

Time: 2 hours

Note:

1. Attempt any five questions.
2. Begin each answer in a new page
3. Answer parts of a question at a place
4. Assume reasonable data wherever required
5. The figure in the right margin indicates full marks for the question
6. All the mathematical symbols and abbreviations have their usual meanings.

1. What do you understand by OSI model? Explain in details. 3+7

2. Write short notes on

i) LAN

ii) Frequency Division Multiplexing 5+5

3 Explain the importance of Error detection and error correction with suitable examples. Discuss Piggybacking 6+4

4 Name three multiple access protocols and discuss any two of them. 3+7

5. Define and explain Virtual Network. Mention a few differences between Virtual Network and Datagram Network 6+4