2055

B.E. (Electronics and Communication Engineering)
Fourth Semester
EC-405: Computer Networks

Time allowed: 3 Hours   Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting two questions from each Unit. Use of scientific calculator is allowed.

x-x-x

I.   Attempt all questions: -

    a) What is meant by a link and node?

    b) What do you understand by LAN?

    c) What is DHCP?

    d) Explain the Flooding.

    e) What are responsibilities of transport layer?   (5x2)

UNIT - I

II.   a) Explain various categories of networks.   (5)

    b) Explain the ISO/OSI reference model.   (5)

III. a) What is the need of Framing? Explain character stuffing and bit stuffing for framing.
                                                                              (5)

    b) Explain different ALOHA protocols and compare their performance.   (5)

IV.   Explain the significance of Switching? What are different switching techniques used in computer networks? Discuss.   (10)

UNIT - II

V.   a) Explain how Network Security can be achieved.   (5)

    b) Discuss about TCP and UDP Protocols.   (5)

VI.   a) Explain the Network layer in the internet.   (5)

    b) Write about electronic mail in detail.   (5)

VII. Discuss about TCP and UDP Protocols.   (10)

x-x-x