1089

B.E. (Information Technology) Fourth Semester
IT-422: Computer Networks

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt _five_ questions in all, selecting atleast two questions from each Unit.

x-x-x

UNIT – I

I. Discuss in detail the functionality of each layer of OSI reference model with a neat diagram. (10)

II. Differentiate the following:-
   a) LAN, Wan and MAN
   b) Circuit Switching and Packet Switching (4,6)

III. Differentiate between Error correction and Detection. Explain the working of selective repeat sliding window protocol. (4,6)

IV. Write a short note on <u>any two</u> of the following:-
   a) IEEE 802.3
   b) ALOHA
   c) Broadband ISDN (5,5)

UNIT – II

V. How the routing decisions are done at Network layer? Explain in detail distance vector routing protocol with an example. (10)

VI. Compare leaky bucket and token bucket congestion control methods with suitable example. (10)

VII. Discuss the TCP connection establishment and release. (10)

VIII. Write a short note on <u>any two</u> of the following:-
   a) Network Security
   b) SNMP
   c) E-mail (5,5)

x-x-x