

B. Tech Degree VII Semester Examination November 2010

CS/IT 703 ADVANCED COMPUTER NETWORKS (2006 Scheme)

Time: 3 Hours

Maximum Marks: 100

PART A

(Answer All questions)

(8 x 5 =40)

- I. (a) Explain Properties of Ethernet.
(b) Explain the weakness in internet addressing.
(c) Explain the characteristics of OSPF.
(d) What is ICMP? Explain the purpose of Echo request and Echo reply ICMP Message.
(e) Explain different types of antennas.
(f) Explain different types of multiplexing.
(g) Compare infrared transmission with radio transmission.
(h) Write short notes on infrastructure and adhoc networks.

PART B

(4 x 15 =60)

- II. (a) Explain Ethernet Technology. (12)
(b) Draw and explain Ethernet Frame Format. (3)
OR
- III. Explain ARP and RARP. (15)
- IV. Explain BGP. (15)
OR
- V. (a) Draw and explain IPv₆ Frame Format. (10)
(b) Compare IPv₆ with IPv₄. (5)
- VI. Explain signal propagation. (15)
OR
- VII. (a) Explain CDMA. (7)
(b) Compare SDMA, FDMA, TDMA and CDMA. (8)
- VIII. Explain GSM Architecture. (15)
OR
- IX. Explain mobile IP. (15)