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B.E/B.Tech. (Full Time) DEGREE END SEMESTER EXAMINATIONS, April/May 2012

INFORMATION TECHNOLOGY BRANCH

FIFTH SEMESTER

IT9303- Computer Networks
(REGULATIONS 2008)

Time: 3 Hrs

Max.Marks: 100

Answer All Questions.

PART A (10 * 2 = 20 Marks)

1. What are the features of layering.
2. List the issues in the data link layer?
3. What are the limitations of Bridges?
4. What are the advantages of FDDI over a basic token ring?
5. Define virtual circuit switching.
6. How congestion avoidance is done in the network layer.
7. Differentiate flow control and congestion control
8. What is the need of QoS.
9. Define TFTP.
10. List the two common queuing algorithms.

PART-B (5 x 16 = 80 marks)

11. Describe any two protocols that address the framing problem.
12. a. Discuss with example, how does the MAC protocol operates on a token ring.
OR
b. Explain the physical properties and how collision avoidance is achieved in 802.11 networks.
13. a. What algorithm does link state routing use to calculate the routing tables.
Describe with example the link state routing algorithm. (4 + 12)
OR
b. i. Discuss the scaling issues addressed by CIDR. (8)
ii. Explain the advantages of host configuration protocol. (8)