

T.E. (I.T.) Sem V (R)

27/5/09

Computer Networks

3 p.m. to 6 p.m.

Con. 3428-09.

(REVISED COURSE)

VR-5112

(3 Hours)

[Total Marks : 100

- N.B. :** (1) Attempt any **five** questions.
 (2) Figures to the **right** indicate **full** marks.
 (3) Assume **suitable** data if **required**.

1. (a) Explain the following with examples :— 10
 MAC address, IP address, Socket, Baud rate, Latency.
 (b) Explain how TCP controls congestion. 10
2. (a) Explain ATM adaptation layer. Also describe VPI/VCI concept. 10
 (b) Discuss the various services offered by transport layer. 10
3. (a) What is CRC ? Write the algorithm for computing checksum and explain with 10
 suitable example.
 (b) Explain DNS. 10
4. (a) Explain different types of routing algorithm. 10
 (b) Describe Hidden station and Exposed station in Wireless LAN. 10
5. (a) Explain Circuit switching, Message switching and Packet switching with the help 10
 of timing diagram.
 (b) Explain leakage bucket algorithm in detail. Also explain advantages and 10
 disadvantages of same with token bucket algorithm.
6. (a) Sketch the Manchester encoding and Differential Manchester encoding for the 10
 bit stream 0001110101.
 (b) Discuss various special IP addresses. 10