



Reg. No. :

Name :

Sixth Semester B.Tech. Degree Examination, May 2013
(2008 Scheme)
Branch : Information Technology
08.602 : COMPUTER NETWORKS

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions. **Each** question carries **4** marks.

1. How are Link State Packets distributed ?
2. What will happen in a token bus if a station accepts a token and crashes immediately ?
3. What is the need for framing in data link layer ?
4. How is subnetting done ?
5. When is a Redirect ICMP message used ?
6. How are large bursts of data handles by token bus algorithm ?
7. Why is flow control done at two different layers in the OSI model ?
8. How does IEEE 802.4 LAN operate ?
9. What is the difference between congestion control and flow control ?
10. How does a diskless workstation learn its IP address while booting ? **(4×10=40 Marks)**



PART – B

Answer **any one** question from **each** Module. **Each** question carries **20** marks.

Module – I

11. Explain the PPP protocol in detail. Where is it used ?
12. a) Compare the OSI model with the TCP/IP based model. **8**
b) Design and implement a 1-bit sliding window protocol. **12**

Module – II

13. a) Show that slotted ALOHA gives better throughput than pure ALOHA. **10**
b) Illustrate how distance vector routing is implemented. **10**
14. a) How does a set of bridges build a spanning tree covering the network ? **12**
b) Which are the IEEE standards for wireless LANs ? Explain. **8**

Module – III

15. a) Explain the format of a TCP header. **12**
b) How is the UDP checksum computed ? **8**
16. a) What is the 'silly window syndrome' ? How is it solved ? **14**
b) How is a TCP connection established ? **6**

(3×20=60 Marks)
