



Reg. No. :

Name :

**Seventh Semester B.Tech. Degree Examination, October 2014
(2008 Scheme)**

08.703 : COMPUTER NETWORKS (R)

Time : 3 Hours

Max. Marks : 100

PART - A

Answer **all** questions. **(10×4=40 Marks)**

1. What is the principal difference between connectionless communication and connection oriented communication ?
2. Generate a polynomial code checksum for the following data :
Data Frame : 110 1011011
Generator : 10011
3. If the bit string 0111101111101111110 is bit stuffed. What is the output string ?
4. What are the features of SLIP ?
5. What happens in a token bus, if a station accepts the token and crashes immediately ?
6. Explain the principle of traffic shaping.
7. How is CSMA/CA used in IEEE 802.11 standard ?
8. What is the significance of subnet mask in IP addressing ?
9. Describe the 2-men army problem in a context of connection release by transport layer.
10. Explain DNS.



PART – B

Answer **any one** question in **each** Module.

Module – I

11. a) What are the datalink layer design issues ? 12
 b) Explain any one error correcting codes used by the datalink layer. 8

OR

12. a) Explain the datalink layer protocol used in the Internet-PPP. 10
 b) Compare Go back N and Selective Repeat sliding window protocol used in DLL. 10

Module – II

13. a) Discuss the hidden station and exposed station problem faced by IEEE 802.11 standard. 10
 b) Explain the flow based routing algorithm with an example. 10

OR

14. a) What are the features of Link State routing algorithm 10
 b) How does OSPF make use of the Link State algorithm ? 10

Module – III

15. What are the elements of transport layer ? Explain. 20

OR

16. a) Compare ARP and RARP. 10
 b) Explain the IGMP algorithm used for internet multicasting. 10