



Reg. No. :

Name :

**Seventh Semester B.Tech. Degree Examination, April 2015
(2008 Scheme)**

08.703 : COMPUTER NETWORKS (R)

Time : 3 Hours

Max. Marks : 100

PART - A

Answer **all** the questions :

(10×4=40 Marks)

1. Describe about the different types of network topology with a neat diagram.
2. Compare LAN, MAN and WAN.
3. Distinguish between FDDI and 802.5.
4. Discuss about congestion prevention policies.
5. Explain about Internet Protocol Header and its Parameters.
6. Explain how DNS is implemented.
7. How is multicasting done in internet ?
8. What is SNMP ? Explain.
9. What is the use of MIME in e-mail ?
10. Write a note on :
 - i) ICMP
 - ii) RARP.





PART – B

Answer **one** question from **each** Module : **(3x20=60 Marks)**

Module – I

11. a) Describe the ISO-OSI reference model. Discuss the functions of each layer. 10
 b) Explain the Go back-n sliding window protocol. 10

OR

12. a) Explain the TCP/IP reference model. 10
 b) Why is framing required in data link layer ? Explain the HDLC protocol. 10

Module – II

13. a) Explain the IEEE 802 standards with neat block diagram. 10
 b) Explain the frame formats of IEEE802.3 and IEEE802.5. 5
 c) Draw the diagram of OSPF header format and explain the functions of each field. 5

OR

14. a) Explain any two routing algorithms. 10
 b) Explain the different congestion control algorithms. 10

Module – III

15. a) Write a short note on IPv6. Explain the fields in the IPv6 header format. 10
 b) Explain the addressing scheme in IPv4 and IPv6. When IPv6 is introduced, does the ARP protocol have to be changed ? Explain. 10

OR

16. a) What are the network number, subnet number and host number for address 135.104.192.100, mask 255.255.128.0 ? 2
 b) Explain the TCP header format with a neat diagram. 10
 c) Write a short note on the SIP standards. Distinguish between SIP and H.323. 8