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Reg. No. : .....

Name : .....

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

**08.703 : COMPUTER NETWORKS (R)**

Time : 3 Hours

Max. Marks : 100

**PART – A**



Answer **all** questions :

1. What are different network topologies ? Compare tree topology and bus topology.
2. What are the different communication modes in HDLC ?
3. List major functions performed by the Data Link layer of the OSI model.
4. What are the advantages of token ring over Ethernet ?
5. How does bridge differ from switch ?
6. Compare service point address, logical address and physical address.
7. Compare connection oriented and connectionless protocols.
8. Briefly explain any one VoIP standard.
9. Explain the packet routing mechanism in mobile networks.
10. Explain the different classes of IP addresses.

**PART – B**

Answer **one** question from **each** Module :

**(3×20=60 Marks)**

**Module – I**

11. A) How packet loss is detected in a Go-Back-N ARQ protocol and selective-Repeat protocol ? 10
- B) Compare OSI and TCP/IP reference model. 10

OR

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12. A) What is the difference between the information field in HDLC I-frame and U-frame ? 10
- B) Explain in detail the data transmission in OSI reference model. 10

### Module – II

13. A) Contrast and compare distance vector routing and link state routing. 12
- B) What is QoS in internet working ? State the techniques to improve QoS. 8

OR

14. A) Compare the features of IEEE 802. 11b and IEEE 802. 11a. Give 802. 11b PHY packet format. 10
- B) Write short notes on OSPF and RIP. 10

### Module – III

15. A) Explain the concept of IP protocols and addressing. Briefly describe subnets and internet control protocols for the network layer in the internet. 12
- B) List and discuss the various transport layer services. 8

OR

16. A) List out advantages and disadvantages of IPv6. 10
- B) Explain the role of a DNS on computer network. How does it help in accessing a web page ? 10