



Reg. No. :

Name :

Seventh Semester B.Tech. Degree Examination, May 2013
08.703 : COMPUTER NETWORKS (RF)

Time: 3 Hours

Max. Marks : 100



PART - A

Answer **all** questions.

(10x4= 40 Marks)

1. What are the five service primitives for implementing a connection oriented service ?
2. Differentiate between service and protocol.
3. Compare OSI and TCP Reference Model.
4. State which layers of the OSI model does the following interconnecting devices operate
 - a) Repeaters
 - b) Bridges
 - c) Routers
 - d) Gateways.
5. What is subnet masking ? Discuss.
6. What is piggybacking ? Mention one advantages of it.
7. Draw the UDP header and explain its fields.
8. Differentiate between adaptive and non-adaptive routing algorithms.
9. What is Classless and Classful Addressing ?
10. Mention the four steps required to setup an SMTP connection.



PART – B

Answer **one** question from **each** Module.

(3×20=60 Marks)

Module – I

11. A) Explain the OSI Reference model for Networking. 10
 B) Explain the various Data link layer design issues. 10
 OR
12. A) What is HDLC ? Draw its frame format and explain. 10
 B) Compare OSI and TCP Reference model. 10

Module – II

13. A) Compare and Contrast Distance Vector Routing and Link State Routing Protocol. 10
 B) Briefly explain shortest path routing. 10
 OR
14. Briefly explain Leaky Bucket and Token Bucket Algorithms. 20

Module – III

15. A) Discuss how the limitations of IPv 4 are handled in IPv 6 ? Discuss how these two networks communicate each other ? 8
 B) Compare IPv 6 and IPv 4 packet formats. 12
 OR
16. Explain RIP and OSPF. 20