



Reg. No. :

Name :

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

08.702 : INTERNETWORKING (F)

Time: 3 Hours

Max. Marks: 100

PART – A

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

1. What is the significance of all-0's address and all-1's address ?
2. What is meant by reverse address resolution ?
3. Explain proxy ARP. What are the security issues associated with proxy ARP ?
4. How does UDP compute header checksum ?
5. Explain core routing architecture.
6. Is it possible for two autonomous systems to establish a forward loop by sending BGP update message to one another ? Why or why not ?
7. Map the following IP multicast address to Ethernet address.
 - i) 224.0.10.2
 - ii) 232.132.0.4
8. Why should each name server know the IP address of its parent instead of the domain name of its parent ?
9. What is anonymous FTP ?
10. What is a 'non-authoritative' response in DNS ? **(10×4=40 Marks)**



PART – B

Answer **one** question from **each** module. **Each** question carries **20** marks.

Module – I

11. a) Explain any four ICMP message types. 10
b) Explain IP datagram option fields. 10

OR

12. a) Explain the need for protocol layering. What are the advantages and disadvantages of layering? 10
b) What is silly window syndrome? How is it managed? 10

Module – II

13. Explain the basic message types in BGP. Give the message formats. 20

OR

14. a) What is the purpose of OSPF hello message? Explain the message format of OSPF hello message. 10
b) Explain the implementation of IGMP. 10

Module – III

15. a) What is flat namespace? What is meant by Top Level Domains in DNS? 10
b) Explain TELNET protocol. 10

OR

16. a) Explain FTP process model. 10
b) Explain HTTP. What are the characteristics of HTTP? 10
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