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Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, May 2013
(2008 Scheme)
08.805B : NETWORK PROGRAMMING (F)**

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions.

1. What is pseudo network interface ?
2. What is the use of ICMP redirect message ?
3. How do you configure the network interface software to accommodate multicast transmission ?
4. Explain the procedure to compute UDP checksum.
5. What is art-of-band data interpretation ?
6. What is meant by cumulative acknowledgment ?
7. What is a delta list ?
8. Explain count to infinity problem.
9. Explain the OSPF packet format.
10. Write the procedure to read a single character from TCP slave device. **(10×4=40 Marks)**

PART – B

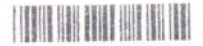
Answer **any one** question from **each** Module.

Module – I

11. a) Explain the procedures used in ARP output processing. **15**
- b) Why is IP considered as the central switch in the protocol software ? **5**

OR

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12. a) Explain the procedure 'ipproc' to handle an IP datagram coming in from the network. 15
- b) Explain buffer management in network interface layer. 5

Module – II

13. a) Draw the TCP finite state machine that control all interactions and explain the transition among various states. 15
- b) What are the two basic implementations of the TCP finite state machine ? 5

OR

14. a) With necessary procedures, explain TCP allocation and deallocation. 12
- b) How does TCP estimate round trip time ? 8

Module – III

15. a) Explain in detail about the implementation of TCP master device. 15
- b) What are the characteristics of RIP ? 5

OR

16. a) Explain the procedure to process an incoming RIP advertisement. 15
- b) Explain the concept of a designated router. 5
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