



Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, April/May 2012
(2008 Scheme)
08.805 B : NETWORK PROGRAMMING (F)**

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions :

(10×4=40 Marks)

1. Write the procedure to compute IP checksum.
2. What should a host do when it receives an ICMP source quench message ?
3. What are the disadvantages of using a single table to hold the ARP cache in a gateway ?
4. What is the use of TCP PUSH function ? How does TCP process segments with push bit set ?
5. What is the technique used to prevent silly window syndrome ?
6. Explain the transitions among the various TCP output states.
7. Explain the sequence space comparison in TCP.
8. Explain the concept of a designated router.
9. Describe the format of OSPF Hello packet.
10. Explain the procedure to write a single character to a TCP slave device.





PART – B

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

MODULE – I

11. a) Explain the procedure to add a new route to the routing table. 10
b) Write the procedure to handle an incoming ICMP redirect message. 10

OR

12. With the help of necessary functions in 'C', explain the reassembly of IP fragments. 20

MODULE – II

13. a) Explain the implementation of TCP output process. 10
b) Explain the method used to inform an application that urgent data has been arrived. 10

OR

14. a) How a TCP timer event is inserted into a delta list ? Explain with necessary procedures. 10
b) Explain the techniques used by TCP to avoid congestion. 10

MODULE – III

15. a) Draw the finite state machine and explain how a gateway using Hello packet interacts with a neighboring gateway. 15
b) What are the advantages and disadvantages of keeping RIP data separate from the IP routing database ? 5

OR

16. a) Explain the procedure for electing a designated router. 10
b) Explain the procedure to process an incoming RIP request. 10

