

**D 22597**

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Name.....

Reg. No.....

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION, JANUARY 2012**

**Computer Science**

**CSC 3C 03—NETWORK PROGRAMMING AND ADMINISTRATION**

**(2010 admissions)**

Time : Three Hours

Maximum Weightage : 36

**Part A**

*Answer all questions.  
Each question carries 1 weightage.*

1. What is SNMP ?
2. What is a subnet ?
3. What do you mean by domain name systems ?
4. Define UDP.
5. What are pipes ?
6. Define Semaphores.
  - . What is a socket ?
8. What are the different reserved port numbers ?
9. Explain RPC.
10. What is TLI interface ?
11. What do you mean by *rlogin* ?
12. Define client-server model.

(12 x 1 = 12 weightage)

**Part B**

*Answer any six questions.  
Each question carries 2 weightage.*

13. Explain the different components of TCP header.
14. Discuss about different types of IP address.
15. Write a short note on FIFO.
16. What socket ? How it differ from IP address ?
17. Explain different file locking mechanisms.
18. Explain /0 multiplexing.

Turn over

19. Write a note on remote command execution.
20. Explain stream pipes.
21. Distinguish between **FTP** and **TFTP**.

(6 x 2 = 12 weightage)

### Part C

Answer any **three** questions.  
Each question carries 4 weightage.

22. Using suitable diagram, explain the different functions of TCP/IP reference model.
23. Write C program to implement client-server model using FIFO.
24. Explain any *five* socket system calls.
25. Explain the different functions of **TLI** interface.
26. Distinguish between Message queues and Stream messages.
27. Write a note on external data **representation**.

(3 x 4 = 12 weightage)