

D 51732

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Name.....

Reg. No.....

THIRD SEMESTER M.Sc.

DEGREE EXAMINATION, DECEMBER 2013

(CUCSS)

Computer Science

PROGRAMMING AND ADMINISTRATION

CSC 3C 03—NETWORK

Maximum : 36 Weightage

Time : Three Hours

Part A

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

1. What is SMTP ?
2. What is Domain Name Systems ?
3. Define TCP.
4. What is FIFO ?
5. Explain remote login.
6. What is TLI interface ?
7. What do you mean by port numbers ?
8. What are streams ?
9. What is concurrent server ?
10. Explain RPC.
11. Explain message queue.
12. What is I/O multiplexing ?

(12 x 1 = 12 weightage)

Part B

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

13. Explain the structure of UDP header.
14. Compare and contrast semaphores and shared memory.
15. Discuss about different IP address classes.
16. Explain generic socket address.
17. Explain different byte manipulation functions. **FTP** communication.
18. List out the command and response exchange between the client and server in

Turn over

19. Distinguish between Connection oriented and Connectionless protocols.
20. Explain how full duplex communication is possible using pipes.
21. Write a note on Asynchronous I/O.

Part C

(6 x 2 = 12 weightage)

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

22. Explain the functions of TCP/IP reference model using suitable diagram.
23. Discuss about different file locking mechanisms.
24. What are the various error reporting messages? Which transport layer protocol is used to handle reporting of errors?
25. Explain elementary TLI functions.
26. Write a note on external data representation.
27. Write a note on :
 - (i) FTP.
 - (ii) SNMP.

(3 x 4 = 12 weightage)