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Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2014

(CUCSS)

Computer Science

CSC 3C 03—NETWORK PROGRAMMING AND ADMINISTRATION

Time : Three Hours

Maximum : 36 Weightage

Part A

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

1. What is ICMP ?
2. Explain FTP.
3. What are pipes ?
4. Explain the use of semaphores.
5. Explain the different types of port numbers.
6. What is an IP address? How it differ from socket ?
7. What is I/O multiplexing ?
8. What is RPC ?
9. Explain the use of *fork* 0 system call ?
10. What is message queue ?
11. What is Domain Name Systems ?
12. What is TLI interface ?

(12 x 1 = 12 weightage)

Part B

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

13. Explain SNMP message Format.
14. Differentiate TCP and UDP.
15. Explain how full duplex communication is possible using pipes.
16. Discuss about different socket families.
17. Explain the different file locking mechanisms.

Turn over

18. Explain different byte manipulation functions.
19. Explain the differences between FTP and TFTP.
20. Write a note on remote command execution.
21. Write a note on Asynchronous I/O.

(6 x 2 = 12 weight)

Part C

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

22. Explain TCP/IP architecture. How it is different ISO-OSI Reference model ?
23. Discuss the Remote Procedure Call concept in detail.
24. Explain the syntax and purpose of the following system calls :—
 - (i) *socketpair*().
 - (ii) *bind*().
 - (iii) *listen*().
 - (iv) *recvfrom*().
25. Explain SMTP protocol.
26. Write a note on shared memory.

(3 x 4 = 12 weight)