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THIRD SEMESTER M.Sc. (CUCSS) DEGREE EXAMINATION, DECEMBER 2016

Computer Sceince

CSC 3C 03 – NETWORK PROGRAMMING AND ADMINISTRATION
(2010 Admission)

Time : Three Hours   Maximum : 36 Weightage

PART A
Answer all questions.
Each question carries 1 weightage.

1. Define UDP.

2. What is TFTP?

3. What is the use of *fork0* system call?

4. How the semaphores are useful?

5. What are port numbers? List the different category of port numbers.

6. What do you mean by streamed pipes?

7. Explain I/O multiplexing.

8. What is TLI interface?

9. Explain the use *ping* command?

10. What is RPC?

11. What is the use *netstat* program?

12. Differentiate between function call and system call.

(12 x 1= 12 Weightage)

PART B
Answer any six questions.
Each question carries 2 weightage.

13. List the different layers and functions of TCP/IP reference model.

14. Explain the structure of a socket.

15. What is UDP? Explain the structure of UDP header with a diagram.

16. What are the different address conversion routines? Explain.

17. Explain how TCP connection management is implemented.

18. Give an account on asynchronous I/O transfer.

19. Explain the sequence of events during RPC.

20. Write a note on external data representation.

21. Explain the role of IP address in a networking system.

(6 x 2 = 12 Weighatge)

Turn over

PART C

Answer any three questions.
Each question carries 4 weightage.

22. Discuss the industry standards of SNMP.

23. Explain in detail, how TCP connections are established and terminated.

24. Write socket program to transfer a file from server to client.

25. Explain the role RPC in NFS.

26. What is DNS? Explain its structure.

27. Explain UDP echo client server model.

(3 x 4 = 12 Weightage)