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Name.....

Reg. No......

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION
NOVEMBER 2009**

Computer Science

CS 303 – NETWORK PROGRAMMING AND ADMINISTRATION

(2005 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A

*Answer any **five** questions.
Each question carries 8 marks.*

1. Compare UDP and TCP.
2. Write note on SNMP.
3. (a) Explain the concept of streams.
(b) Differentiate between FIFO and pipe.
4. What is a socket ? With the help of a block diagram, explain flow of socket system calls for connectionless protocol.
5. Write notes on asynchronous I/O.
6. What is a TLI? Discuss any *three* elementary TLI functions.
7. Discuss various aspects of Remote login.

(5 x 8 = 40 marks)

Part B

*Answer any **four** questions.
Each question carries 10 marks.*

8. (a) Discuss important features of SMTP.
(b) Discuss SNMP message format.
9. Write notes on : (i) Message queues in IPC. (ii) Semaphores.
10. Explain any *five* socket system calls.
11. (a) Write notes on stream pipes.
(b) Discuss External data representation.
12. (a) Explain the significance of I/O multiplexing.
(b) Discuss the role of streams and stream pipes in the implementation of TLI.
13. (a) What is RPC? Compare a normal procedure call with RPC.
(b) Briefly explain design issues associated with remote command execution.

(4 x 10 = 40 marks)