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Code No: A4003
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.Tech I Semester Examinations, March/April-2011
NETWORK PROGRAMMING
(INFORMATION TECHNOLOGY)

Time: 3hours   **Max. Marks: 60**

Answer any five questions
All questions carry equal marks
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1.a)   Discuss about Networking commands, backup utility and text processing utility.
  b)   Explain about shell responsibilities.   [12]

2.a)   Use command substitution to print the
       i) Calendar of the current month ii) Listing of a group of filenames stored in a file
  b)   Write short notes on:
       i) ls .*   ii) ls *.   iii) wc foo   iv) wc < foo.   [8+8]

3.a)   Explain the threads in detail.
  b)   What are the system call interfaces for process management?   [12]

4.a)   What are the different locking techniques available in UNIX? Explain each.
  b)   Explain the concept of shared memory.   [12]

5.   Explain the UNIX kernel support for messages, for semaphore and for shared
      memory.   [12]

6.a)   What are the various socket options available .
  b)   Differentiate the system calls for connection oriented and connectionless protocol.
                                                                                       [12]

7.   Explain the RPC model in detail.   [12]

8.   Explain the client/server interaction with stream sockets.   [12]

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