Code No. N0521/R07

Set No.1

IV B.Tech. I Semester Supplementary Examinations, February/March - 2011
NETWORK PROGRAMMING

(Common to Computer Science & Engineering and Information Technology)
Time: 3 hours   **Max. Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks
*****

1. a) Describe in detail about the steps and buffers when an application writes to TCP socket.
    b) Discuss different UNIX standards in detail.   [8+8]

2. a) Explain in detail about socket ,connect and bind functions.
    b) Write a Concurrent server program which uses TCP and show the status of Client and Server before call to fork, after fork and after socket closing by parent and child.
                                                                                     [8+8]

3. a) Discuss in detail about handling SIGCHILD signal.
    b) Give differentiation between wait and waitpid.   [8+8]

4. a) Explain in detail about socket states and also discuss in detail about IPV6 socket option.
    b) Explain in detail I/O multiplexing.   [8+8]

5. a) Discuss in detail about determining outgoing interface with UDP.
    b) Explain elementary UDP sockets.   [8+8]

6. a) Explain about elementary name and address conversions in detail.
    b) Describe in detail about reentrant functions .   [8+8]

7. a) Compare File locking Vs record locking.
    b) Explain in detail about pipes with client server example.   [8+8]

8. a) Explain about terminal line disciplines in detail.
    b) Give an overview of recording process.   [8+8]

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Code No. N0521/R07

Set No.2

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NETWORK PROGRAMMING
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Time: 3 hours   **Max. Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks
*****

1. a) Explain about TCP connection establishment and termination.
   b) Describe about limitations of buffer sizes that affect the data on application can
   transmit.   [8+8]

2. a) Discuss in detail about accept, fork and exec functions in detail.
   b) Describe byte ordering and manipulation function and its related functions in detail.
                                                                          [8+8]

3. a) Explain about connection abort before accept returns in detail.
   b) Give TCP client-server from client and server's perspective.   [8+8]

4. a) Describe in detail about getsockopt and setsockopt functions in detail.
   b) Under what conditions is a descriptor ready? Discuss in detail.   [8+8]

5. a) Write dg-cli function that writes a fixed number of data grams to the server.
   b) Explain UDP echo server function in detail.   [8+8]

6. a) Explain in detail about gethostbyname and uname functions.
   b) Give typical arrangement of client's resolvers and name servers.   [8+8]

7. a) Explain about system V IPC in detail.
   b) What is a semaphore? Explain in detail about structure of information that maintained
   in kernel in detail.   [8+8]

8. a) Discuss in detail about rlogin.
   b) Discuss in detail about pseudo terminals and about recording process with pseudo
   terminals and about recording process with pseudo terminals.   [8+8]

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Set No.3

Code No. N0521/R07

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NETWORK PROGRAMMING
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Time : 3 hours   **Max. Marks :80**

Answer any FIVE Questions
All Questions carry equal marks
*****

1. a) Discuss in detail about protocol usage by common internet applications.
   b) Explain about Buffer sizes and their limitations.   [8+8]

2. a) Give in detail about socket and different socket address structures.
   b) Explain elementary TCP sockets in detail.   [8+8]

3. a) Explain about TCP echo server.
   b) Explain with examples normal startup and normal termination.   [8+8]

4. a) Compare different I/O models in detail.
   b) Explain about batch input and shut down functions.   [8+8]

5. a) Elucidate on lack of flow control with UDP.
   b) Explain what happens if a client datagram is lost?   [8+8]

6. a) Discuss in detail about domain name server and entries in DNS.
   b) Explain about resolver option in detail.   [8+8]

7. a) What is FIFO? Discuss in detail about FIFOs with a client/Server.
   b) Give description on name spaces for IPC.   [8+8]

8. a) Explain about Pseudo-Terminals and control terminals in detail.
   b) Discuss in detail about rlogin .   [8+8]

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Set No.4

Code No. N0521/R07

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Time: 3 hours   **Max. Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks
*****

1. a) Discuss in detail on standard internet services.
   b) Explain about TCP connection establishment and termination.   [8+8]

2. a) Give in detail about socket and different socket address structures.
   b) Give in detail about relationship and differences among six exec functions.   [8+8]

3. a) Discuss in detail about crashing, rebooting and shut down of server host.
   b) Explain in detail about TCP Echo server functions.   [8+8]

4. a) Why would an application call shut down with an argument of SHUT-RDWR
      instead of just calling close?
   b) Explain in detail socket states.   [8+8]

5. a) Write dg-echo function in detail.
   b) What is datagram? Write dg-cli function that verifies returned socket address.
                                                                                [8+8]
6. a) Describe in detail about obsolete IPV6 address lookup functions.
   b) Give typical arrangement of clients resolvers and name servers.   [8+8]

7. a) Give description on name spaces for IPC.
   b) Discuss in detail about FIFOs streams and messages.   [8+8]

8. a) Discuss different terminal modes in detail.
   b) Briefly discuss in detail about remote login.   [8+8]