Code No: 9A12601/R09

B.Tech. III Year II Semester Regular & Supplementary Examinations

Set-2

April/May - 2013

LINUX PROGRAMMING

(Information Technology)

Time: 3 Hours | Max. Marks: 70

*Answer any **FIVE** Questions*

***All** Questions carry **equal** marks*

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1. (a) What is the significance of these commands?
   (i) mv $HOME/include
   (ii) cp – r bar1 bar2
   (iii) mv* .. /bin.
   (b) Give brief description about various networking commands available in Linux.

2. (a) Present a detailed note on shell functions.
   (b) What is the role of here documents in shell programming?
   (c) Write a shell script to display current time and date.

3. Explain the following system calls,
   (a) Create
   (b) Read
   (c) Write
   (d) Close.

4. (a) Explain the importance following in system calls in Unix programming,
   (i) fork
   (ii) vfork.
   (b) Give brief description about the signal mask

5. (a) What is a semaphore? Explain the various functions support by Unix system V semaphores.
   (b) Explain the role of pipes in interprocess communication.

6. (a) Write and explain the procedure to interact a client process with server process by using shared memory.
   (b) How posix.1b semaphores differ from those of Unix system V?

7. (a) Write a C program lock and to test the condition variable by using the mutex.
   (b) How can we create the new thread? Explain it in detail.

8. (a) Draw and explain the calling sequence socket APIs creating a datagram socket for interprocess communication.
   (b) Write a short note on connection oriented and connection less protocols.