S.16

Code No: 9A12601/R09

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

Set-4

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) How do you locate lines beginning and ending with a dot using?
   (i) grep
   (ii) sed. (b) What do these commands do?
   (i) grep abc
   (ii) grep <html> foo
   (iii) grep "*" foo
   (iv) grep *.

2. (a) Write a shell script to find whether the given string is palindrome or not.
   (b) Present a detailed note on control structure of a shell programming.

3. (a) What system calls are used to change the user ID and group ID of file? Explain them.
   (b) Give brief description about the file locking.

4. (a) Write and explain the different versions of exec system call.
   (b) Which system call is used to block the generated process? Explain it by using syntax and example.

5. (a) Explain with the help of neat sketch the client/server interaction by using shared memory.
   (b) Give brief description about the different library functions available in message queues.

6. (a) List and explain the various APIs available for shared memory.
   (b) Distinguish between Unix system V and posix. 1b semaphores.

7. (a) Write a program to synchronize read and write threads by using semaphores.
   (b) Explain the various arguments present in pthread_create and thr_continue functions.

8. Explain the different APIs used by sockets in Unix programming.