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Code No: 57046

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, February/March -2016

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Semester Examinations, February/March -201 LINUX PROGRAMMING

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(Computer Science and Engineering)

Time: 3 Hours

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Max. Marks: 75

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Answer any Five Questions All Questions Carry Equal Marks

- 1.a) Write briefly on POSIX threads.
- b) Write briefly on Thread synchronization with semaphores.

[8+7]

- 2.a) Describe any four built in variables in Shell and demonstrate their use by giving an example for each.
 - b) Write a shell script to display GUD MRNG, GUD AFTERNOON, GUD NIGHT based on system time whenever user logs on. [7+8]
- 3. Write a program to print all the filenames with inode numbers recursively in a directory whose name is given with command line argument using directory system calls.
- 4.a) Write briefly about system calls used for message queue and semaphores.

b) Write a program to lock a memory region using semaphore.

[8+7]

- 5. Write a code snippet to implement echo server and echo client on port number 1234 using connection oriented system calls. [15]
- 6.a) Write a shell program to print a multiplication table of a number given from command line.
 - b) Write briefly on the ":" and "" commands in bash. Write briefly on if control structure in bash with examples. Write briefly on "&&" operator in bash. [7+8]
- 7. Write a client and server program using shared memory so that what is written by the client in shared memory is read and printed by the server. [15]
- 8.a) List the differences between named pipe and unnamed pipe.

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b) Write a program to implement full duplex communication using unnamed pipe.

[7+8]

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