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R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, January - 2018 LINUX PROGRAMMING

Time: 3hrs

Max.Marks:60

Answer any five questions All questions carry equal marks

| 1.a) b) | Explain various process utilities available in linux. Write a shell script that deletes all lines containing a specified word in one or n supplied as arguments to it. | nore files [6+6] |
|------------|--|---------------------|
| 2.a) b) | Explain the kernel support for file system. Explain about symlink () function with example program. | [6+6] |
| 3.a) b) | Explain various patterns and actions in awk. Write an awk script to perform simple arithmetic operation. | [6+6] |
| 4.a) b) | Differentiate soft link and hard link with examples. Describe usage of dup(), dup2() system calls with example. | [6+6] |
| 5.a) b) | What is an orphan process? Write a program to illustrate orphan process. Define Signals. What do you mean by Unreliable Signals? Explain. | [6+6] |
| 6.a) b) | What is a pipe? Using pipe, how IPC can be implemented. Compare the IPC functionality provided by message queues and FIFO's. What advantages and drawbacks of each? Explain briefly. | are the [6+6] |
| 7.a) b) | Differentiate all IPC mechanisms with examples. Write a C Socket Program for Linux with a Server and Client Example Code. | [6+6] |
| 8.a) b) | Write briefly on POSIX threads. Write briefly on Thread synchronization with semaphores. | [6+6] |
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