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R09

[12]

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, August - 2017 LINUX PROGRAMMING

Time: 3hrs Max.Marks:60

Answer any five questions All questions carry equal marks

- 1.a) What are the features of LINUX Operating System?
 - Describe the contents of a directory, explaining the mechanism by which its entries are updated by cp, mv, and rm commands. [6+6]
- Explain briefly about Mathematical functions in awk.
 - b) Write a shell script to find the smallest of 10 integers using positional parameters.[6+6]
- Differentiate between hard linking and soft linking.
 - b) Write the syntax of read() and write() system calls and explain with an example code.
 [6+6]
- Write the syntax of six versions of exec functions and also explain how these functions differ from each other. [12]
- Define a signal. What are the uses of signals? What are the conditions that can generate a signal? Describe the actions to be taken by the kernel when a signal occurs. [12]
- What are pipes? Explain how pipes are created and used in IPC with an example also mention their limitations. [12]
- Explain the following POSIX APIs with clear syntax and with an example code:
 a) pthread_self()
 b) pthread_kill()
 c) pthread_exit()
 [12]
- Explain briefly about the following socket APIs with clear syntax:
 a) socket()
 b) bind()
 c) listen()
 d) accept()

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