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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA IV Semester Examinations, March/April - 2022 LINUX PROGRAMMING

Time: 3 Hours Max.Marks:75 Answer any five questions All questions carry equal marks 1.a) Write a shell script to find the factorial of a given number. b) Explain about shell meta characters and shell variables. [8+7] 2.a) Explain about the control structures used in shell programming. b) Write a shell program to concatenate two files. [7+8]Write a Perl program to sort the list of element in an array. 3.a) Explain about the Unix file structure. b) [8+7] 4. Explain the following system calls with complete syntax and examples. c)link d)symlink e) getcwd. b) chown [15]

Explain about the reliable and unreliable signals, 5.a)

b) Explain about the kernel support for process. [8+7]

Explain about the wait and waitpid system call. 6.a)

Explain about the process control. b) [8+7]

What are pipes? Explain their limitations. Explain how pipes are created and used in IPC 7.a) with an examples.

Explain about the Unix kernel support for messages. b) [8+7]

Write client server program using TCP. 8.a)

b) Explain about the Unix API for shared memory. [7+8]

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