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Time: 3 Hours Answer any five questions All questions carry equal marks 1. Explain about shell variables and shell Meta characters with suitable examples. [15] Explain about Piping and I/O redirection operators in Bourne Shell. 2.a) b) Write a shell script to display the contents of a file without using in-built utilities. [8+7] 3.a) Give the syntax for open() and create() system calls and explain. b) Describe the file descriptor and inode table entries with a neat diagram. [8+7] 4.a) Explain any two directory related system calls with neat syntax and example. Write about hashes and references in Perl. b) [8+7] 5.a) How does a fork() system call differs from an exec() system call? Explain. Write a program that illustrates the concept of zombie process. b) [8+7] Illustrate the concept of kill() and raise() system calls. 6.a) Explain about the primary features of reliable functions with an illustrative example b) program. [7+8] 7.a) What are the security problems associated with system V IPC mechanisms? What are the limitations of pipes? List the benefits of FIFOs compared to pipes. b) [7+8] 8. Describe all the elementary socket functions required to write a complete TCP client and server applications? [15] ----00000----

Code No: 844AB

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA IV Semester Examinations, July/August - 2021

LINUX PROGRAMMING

Max.Marks:75

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