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[7+8]

[15]

Code No: 844AB

b)

and server application.

8.

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

Time: 3 Hours Max.Marks:75

> Answer any five questions All questions carry equal marks

1. Explain about shell variables and shell Meta characters with suitable examples. [15] 2.a) Explain about Piping and I/O redirection operators in Bourne Shell. Write a shell script to display the contents of a file without using in-built utilities. [8+7] b) 3.a) Give the syntax for open() and create() system calls and explain. Describe the file descriptor and inode table entries with a neat diagram. b) [8+7]Explain any two directory related system calls with neat syntax and example. 4.a) Write about hashes and references in Perl. b) [8+7]How does a fork() system call differs from an exec() system call? Explain. 5.a) b) Write a program that illustrates the concept of zombie process. [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.aWhat are the security problems associated with system V IPC mechanisms? What are the limitations of pipes? List the benefits of FIFOs compared to pipes.

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Describe all the elementary socket functions required to write a complete TCP client