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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

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- 1.a) Describe the characteristic features of Linux operating system.
- b) Summarize all the Shell Meta characters with examples.

[7+8]

- 2.a) Write the syntax and examples of the following commands.
 - (i) tee
- (ii) grep
- (iii) mount
- (iv) sort.
- b) Write a shell script to reverse the given number and check whether it is palindrome or not. [7+8]
- 3.a) Differentiate between dup() and dup2() System calls.
 - b) Write a C program to copy the contents of one file to other using system calls. [7+8]
- 4. Define a system call. Write about directory handling system calls with syntax and suitable examples. [15]
- 5.a) When the process is said to be Zombie state? Write a 'C' Program to illustrate Zombie Process.
 - b) Differentiate between reliable and unreliable signals.

[8+7]

- 6. Write about Kernel support for a Process in Linux? Compare and Contrast wait() and waitpid() System Calls with suitable programs. [15]
- 7. What are the limitations of anonymous pipes? Write about communication between two unrelated processes using Named Pipes. [15]
- 8.a) Explain about Socket address structures for Internet Domain.
 - b) Write a program for single client-server connection.

[8+7]

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