

R15**Code No: 824AB****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA IV Semester Examinations, October/ November - 2020****LINUX PROGRAMMING****Time: 2 Hours****Max.Marks:75**

Answer any five questions
All questions carry equal marks

- 1.a) Write a shell script to find the largest of 10 integers.
b) Explain various process utilities in Linux with clear syntax. [15]
- 2.a) Write about the following UNIX commands with example.
Cal, date, echo, printf, bc, script, mailx, who, tty, sty.
b) How to declare and implement associative arrays? Give an example. [15]
- 3.a) Describe usage of dup (), dup2 () system calls with example.
b) Explain about symlink () function with example program. [15]
4. Write the syntax of the following system calls and explain with an example code.
a) telldir () b) mkdir () [15]
- 5.a) Differentiate between fork() and vfork().
b) What is the need of exec() system call? Write a C program to illustrate exec (). [15]
- 6.a) Define Signals. What do you mean by Unreliable Signals? Explain.
b) Describe SIGKILL and SIGINT with examples. [15]
7. Write a program and explain how to transfer a large amount of data between two processes using Message queues. [15]
8. Explain briefly about the following socket APIs with clear syntax:
a) accept() b) connect() c) bind () [15]

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