Code No: 824AB

R15

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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