

Roll No.

Total Pages : 3

MCA/D-19

10022

LINUX AND SHELL PROGRAMMING

Paper-MCA-14-53

Time Allowed : 3 Hours]

[Maximum Marks : 80

Note: Quesiton No. one is compulsory. In addition to that, attempt four more questions selecting one question from each Unit. All questions carry equal marks.

Compulsory Question

- 1. (a) What are various categories of files in Linux? Discuss. 4
- (b) Discuss the layout of C program in memory. 4
- (c) Discuss command for changing the file permissions. 4
- (d) Discuss tr and more commands using example. 4

UNIT-I

- 2. Discuss the Linux file system and explain different blocks that constitute a file system. 16

10022/K/202/300

P. T. O.

- 3. (a) Discuss the architecture of Linux. 8
- (b) Discuss various file related commands using syntax and example. 8

UNIT-II

- 4. How we can handle projects using makefile? Design a Makefile that automatically generates dependencies and incorporates all of the preceding information. 16
- 5. (a) Discuss various gdb debuggr commands. 10
- (b) What are zombie and orphan processes? How can they be managed? 6

UNIT-III

- 6. (a) Give a description of few important signals. How are they handled? 8
- (b) How are networks created in Linux? Discuss various networking related commands in Linux. 8
- 7. Who is a super user in Linux? Explain various user management commands. Also discuss how file systems are mounted. 16

10022/K/202/300

2

http://www.kuonline.in

http://www.kuonline.in

http://www.kuonline.in

http://www.kuonline.in

UNIT-IV

8. (a) Discuss various filters in Linux using syntax and examples. 8
- (b) Discuss various process related commands in Linux using suitable examples. How can we manage multiple processes?
9. (a) Write a shell script to merge the contents of three given files, sort them and display the sorted output on the screen page by page. Also display the list of last 20 files present in the current directory and store that list in a file named as current. 8
- (b) Explain different file and string test operators with examples.

<http://www.kuonline.in>
Whatsapp @ 9300930012
Send your old paper & get 10/-
अपने पुराने पेपर्स भेजे और 10 रुपये पायें,
Paytm or Google Pay से