

(6 pages)

Reg. No. :

Code No. : 8077

Sub. Code : WCAM 12

M.C.A. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2023.

First Semester

Computer Applications – Core

LINUX AND SHELL PROGRAMMING

(For those who joined in July 2023 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (15 × 1 = 15 marks)

Answer ALL the questions.

Choose the correct answer :

1. Which command is used to display the current directory in the Linux terminal?
(a) Showdir (b) Printdir
(c) Pwd (d) Dir
2. The manual page section number two describe the following
(a) System calls (b) Library calls
(c) Special files (d) Games

3. The directory/media is the
(a) Mount point for removable media
(b) Mount point for filesystem
(c) Mount point for removable media and filesystem
(d) None of the mentioned
4. File _____ is the process pf producing filenames or pathnames that match a specified wildcard character
(a) Grabbing (b) Globbing
(c) Copying (d) Moving
5. The linux signal _____, unconditionally terminates the process
(a) SIGTERM (b) SIGKILL
(c) SIGQUIT (d) SIGSTOP
6. The _____ command allows you to view the current jobs being handled by the shell:
(a) Create (b) Jobs
(c) View jobs (d) View tasks
7. After the function executes, you use the standard _____ variable to determine the exit status of the function
(a) ?\$ (b) \$?
(c) \$ (d) ?

Page 2

Code No. : 8077



8. The _____ command allows you to create a menu from a single command line and then retrieve the entered answer and automatically process it.
- (a) Select (b) Create
(c) Process (d) SIGKILL
9. A _____ editor edits a stream of data based on a set of rules you supply ahead of time, before the editor processes the data.
- (a) Sed (b) Bash
(c) Gawk (d) Root
10. The sed editor include _____ command to add the next line in the data stream to create a multiline group for processing
- (a) N (b) D
(c) P (d) L
11. The _____ is an active buffer area that holds the text examined by the sed editor
- (a) String space (b) Hold space
(c) Pattern space (d) Character space
12. The _____ symbol is used to represent the matching pattern in the substitution command
- (a) \$ (b) &
(c) % (d) #

Page 3 Code No. : 8077

13. The gawk record variable RS specifies _____
- (a) Input field separator character
(b) Input record separator character
(c) Output field separator character
(d) Output record separator character
14. The dash built-in command _____ displays a text string and environment variables
- (a) exec (b) echo
(c) cd (d) export
15. The _____ shell is an open source Unix shell
- (a) zsh (b) dash
(c) linux (d) opera

PART B — (5 × 4 = 20 marks)

Answer ALL the questions, choosing either (a) or (b).

16. (a) How do you list files and directories in Linux?
Or
(b) Establish the expr command syntax with its operators.
17. (a) Write a Linux program to read values in a list using for command.
Or
(b) Illustrate the use of while statement in Linux coding.

Page 4

Code No. : 8077
[P.T.O.]



18. (a) Elaborate on gawk editor with its command options.

Or

- (b) How to create text menus in Linux?
19. (a) Elaborate on the three multiline commands in sed editor.

Or

- (b) Discuss the types of regular expressions.
20. (a) Present detailed notes on pythonic arguments.

Or

- (b) How to automate backups in scripts?

PART C — (5 × 8 = 40 marks)

Answer ALL the questions.

21. (a) Present detailed note on the following with necessary examples
- (i) creation of script files
 - (ii) output redirection

Or

- (b) Explore the if-then -else statement in Linux with syntax and example.

22. (a) Explore the illustration of iterating with the until statement.

Or

- (b) How to run Scripts in the background mode? Give examples.

23. (a) Illustrate the use of global variables and local variables in a function.

Or

- (b) Designate the use of sed editor. Also specify the sed command options.

24. (a) Discuss the SED editor hold space commands with example program.

Or

- (b) Explain how to create sed utilities.

25. (a) Extend detailed study on writing database shell scripts

Or

- (b) Explain how to use internet from our scripts?

