(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 multilane 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 multilane 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?

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