

**SECTION B – (2 x 5 = 10 marks)**  
**ANSWER ANY TWO QUESTIONS**

16. Illustrate about Traversing directories.
17. How to handle signals in Linux? Give examples.
18. Describe dialog packages in detail.
19. Classify variables in gawk programming language.
20. Outline Python Language.

**SECTION C – (5 x 10 = 50 marks)**  
**ANSWER ALL QUESTIONS**

21. A List out the viewing file commands and explain in detail.  
**OR**  
B Briefly describe if statements and its types.
22. A Classify looping statement with an example.  
**OR**  
B How to handle user input? Give examples.
23. A Elaborate functions in Linux.  
**OR**  
B Briefly explain creating text menus in Shell programming.
24. A Describe the types of regular expression engines.  
**OR**  
B Elaborate Advanced sed with example.
25. A Explain dash shell with a sample program.  
**OR**  
B Illustrate producing Scripts for Database, Web, and E-Mail.

Four Pages  
S. No. 70912

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**23PCA02**

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**END SEMESTER EXAMINATION NOV/DEC-2023**

**First Semester**

**MCA**

**CORE – II LINUX AND SHELL PROGRAMMING**

**Time: Three Hours**

**Maximum: 75 marks**

**SECTION A – (15 x 1 = 15 marks)**  
**ANSWER ALL QUESTIONS**

1. Which one shows the name of the operating system?  
A uname -n                      B uname -r  
C uname -o                      D uname -m
2. What is shell script?  
A File containing a series of commands                      B File containing special symbols  
C group of commands                      D group of functions
3. With \_\_\_\_\_ first line of every shell script begins.  
A &                      B #  
C \$                      D !
4. For looping with a list what is used?  
A until                      B case  
C while                      D for

5. Which statement resumes the next iteration of a for, while, select, or until loop?
- A continue                      B Break  
C complete                      D command
6. To perform a set of instructions repeatedly, which command(s) are used?
- A for                              B for, while, until  
C until                            D while
7. What is the use of return command?
- A To begin the function              B to exit a function with a specific exit status  
C To break the function              D To execute the function
8. What is the use of echo command?
- A Display echo sound              B Execute the function  
C Stop the program              D Display printable text characters.
9. Discuss the use of the keyword 'local'
- A to define a variable within a function for its local scope              B to redefine any global variable  
C this is not a valid keyword              D to redefine any public variable
10. Which one of the following is used by awk to control the conversion of numbers to string?
- A RS                              B OFMT  
C SUBSEP                      D RSTART
11. Classify the regular expression engines.
- A POSIX Basic Regular Expression engine              B POSIX Basic Regular Expression engine

- POSIX Extended Regular Expression engine              C POSIX Basic irregular Expression engine              D POSIX Advanced Regular Expression engine
- POSIX Extended Regular Expression engine              D POSIX Advanced Regular Expression engine
12. The sed editor includes three special commands that you can use to process multiline text. Show the correct commands in the following:
- A N,D,B                              B N,T,P  
C N,D,P                              D M,D,P
13. What is use of du command?
- A displays the memory usage for individual system              B displays the disk usage for individual files and directories  
C displays the memory usage for individual system              D displays the disk usage for individual system
14. Which command is used to display the environment variables?
- A Env                              B set  
C Eval                              D bg
15. Eval command\_\_\_\_\_.
- A displays a text string and environment variables              B replaces the shell process with the specified command  
C concatenates all arguments with a space              D terminates the shell process