

N.G.M. COLLEGE (AUTONOMOUS): :POLLACHI**END-OF-SEMESTER EXAMINATIONS: MAY – 2024****B.Sc. – COMPUTER TECHNOLOGY****MAXIMUM MARKS: 50****SEMESTER: IV****TIME: 3 HOURS****PART – III****LINUX AND SHELL PROGRAMMING****SECTION – A (10 X 1 = 10 MARKS)****ANSWER THE FOLLOWING QUESTIONS.****(Objective Questions with four Multiple Choices)****(K1)**

1. Which of the following is a command for searching a pattern in a file.
 - a) find
 - b) grep
 - c) lookup
 - d) go
2. Internally a file is identified by Unix using a unique _____ associated with it.
 - a) Inode number
 - b) dir
 - c) table
 - d) data blocks
3. The bottom line of the ‘vi’ screen is called _____
 - a) command mode
 - b) inset mode
 - c) editor
 - d) command line
4. _____ indicates comments in shell script.
 - a) \$
 - b) !
 - c) #
 - d) ?
5. _____ is used to change the password for root.
 - a) passwd
 - b) pwd
 - c) root
 - d) psroot

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES. (K2)

6. What is the use of chmod command?
7. State the role of wc in shell scripting.
8. Describe the function of nohup.
9. What is the test command in Unix?
10. Give any 2 variances between mount and umount.

SECTION – B (5 X 3 = 15 MARKS)**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)**

11. a) List out the three provisions for protecting data.

(OR)

- b) Explain any 3 directory related commands

(CONTD 2)

12. a) Illustrate the 4 parts of block system.

(OR)

b) Explain about the sort command with options and example.

13. a) Enumerate the disadvantages of ‘vi’ editor.

(OR)

b) Write the reasons to terminate a process in the middle of the execution.

14. a) Develop a shell script to search a string from a file.

(OR)

b) Demonstrate the different forms of if statement.

15. a) Discuss about the file system checking.

(OR)

b) Explain about the security features that involve in the manipulation of a file permission bits.

SECTION – C (5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.
(K4 (Or) K5)

16. a) Explain the salient features of Unix.

(OR)

b) Explain about listing files and directories with possible options.

17. a) Elucidate the commands used for the upkeep of hard disk.

(OR)

b) Distinguish the commands ‘compress’ and ‘pack’ with examples.

18. a) Explain how to edit a file in ‘vi’ editor. List out the steps.

(OR)

b) Demonstrate the efficient way of scheduling the process done in multitasking and explain the commands used for it.

19. a) Illustrate the logical operators (&& and ||)

(OR)

b) Explain about looping statement with suitable examples.

20. a) Explain how the startup and shutdown procedures are controlled by automated shell scripts.

(OR)

b) Explain how file system is organized and accessed in Unix.