15422

Reg. No. | | | | | | | | | |

IV Semester B.C.A. Degree Examination, September/October - 2022

COMPUTER SCIENCE

UNIX AND SHELL PROGRAMMING

(CBCS Scheme)

Time : 3 Hours **Maximum Marks : 70**

***Instructions to Candidates*:**

- Answer all the sections.

SECTION - A

Answer any Ten questions. Each question carries Two marks. (10×2=20)

1. Mention any four features of Unix operating system.
2. Differentiate between finger and who command.
3. Mention different types of Shells.
4. What is the significance of expr command?
5. What is the use of wall and mail command?
6. Write the syntax of if-else statement with example.
7. Write the uses of head and tail command.
8. What are positional parameters?
9. What is distributed file system?
10. What is file encryption? How do you encrypt a file in unix?
11. What is test command in Unix?
12. Write the shell command for searching a pattern in a file.

[P.T.O.

SECTION - B

Answer any Five questions. Each question carries Ten marks. (5×10=50)

13. a) Explain unix architecture with a neat diagram. (4)

    b) What is the use of chmod command? Differentiate between symbolic and absolute mode with example. (6)

14. a) Expalin unix system calls with example. (5)

    b) Write a shell program to print all prime numbers between m and n. (5)

15. a) Write a short note on:

    i) Cat ii) Is iii) Cut

    iv) Kill v) nice (5)

    b) Explain different loop control statements. (5)

16. a) Write a note on awk command. (5)

    b) Explain disc related commands. (5)

17. Explain nohup and grep commands. (10)

18. a) Write a shell script to count number of vowels in a given string. (5)

    b) Describe positional parameters in Unix shell programming. (5)

19. a) Write a note on SED command. (5)

    b) Write a short note on Unix communication commands. (5)

20. a) Expalin different types of processes in Unix. (5)

    b) Explain compression and de compression techniques. (5)