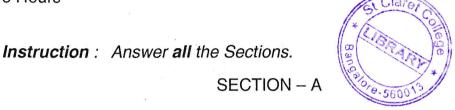37

CB – 478

IV Semester B.C.A. Examination, August/September 2023
(CBCS) (2015 – 16 and Onwards) (Repeaters)
COMPUTER SCIENCE
BCA-404 : Unix Shell Programming

Time : 3 Hours

Max. Marks : 70

Instruction : *Answer **all** the Sections.*

SECTION – A

I. Answer **any ten** questions. **Each** question carries **two** marks. (10×2=20)

1) Write any two features of UNIX operating system.

2) Write a note on Directory File and Ordinary File.

3) Explain process states in UNIX.

4) Briefly explain df and du commands.

5) Briefly explain gzip and gunzip commands.

6) Which are the symbols used as redirection operators ?

7) What is the purpose of TEST command ?

8) Explain the usage of wall command.

9) Write the syntax of for statement and briefly explain its working.

10) What is Domain Name system ?

11) What is foreground and background process ?

12) Define system administrator.

SECTION – B

II. Answer **any five** questions. **Each** question carries **ten** marks. (5×10=50)

13) a) Explain the features of UNIX operating system. 5

    b) Explain the usage of echo, who and Banner commands. 5

14) a) Explain IS Command with different options. 7

    b) Write a note on UNIX system communication command. 3

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15) a) Write a note on file permissions in UNIX.   5

     b) Explain mounting and unmounting of files.   5

16) a) Explain sort, cut, unique, cat and grep commands with syntax and example.   5

     b) Explain Positional parameters.   5

17) a) Write a shell script to print the result of a student as first, second, pass and fail class based on percentage using case structure.   8

     b) Give any three features of e-mail.   2

18) a) Write a note on startup and shutdown commands.   5

     b) Explain backup and restore facilities in UNIX.   5

19) a) Write a shell script to find the factorial of a number.   5

     b) Explain user management in UNIX.   5

20) a) What are the main functions of system administrator ? Explain.   5

     b) Write a note on different types of shells.   5

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