



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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