



UG – 418

20
IV Semester B.C.A. Examination, September/October 2022
(CBCS) (F+R) (2015-16 and Onwards)
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.

(10×2=20)

- 1) Mention any two features of Unix operating system.
- 2) Define Disk partitioning.
- 3) Write any two options of cut command with an example.
- 4) What is distributed file system ?
- 5) What is the use of PS command ?
- 6) What do you mean by zombic process ?
- 7) What is interrupt ?
- 8) What is mail command used for ?
- 9) What is a purpose of finger command ?
- 10) What is finger and merg command ?
- 11) Mention different nodes.
- 12) Mention the different types of Shell variable.

SECTION – B

II. Answer **any five** questions. **Each** question carries **ten** marks.

- 13) a) Explain unix architecture with a neat diagram.
b) Compare Kernel mode versus user mode. (5+5)
- 14) a) What are the different modes of setting file permission ? Explain with an example.
b) Explain the use of grep command. (6+4)

P.T.O.



- 15) a) Describe the compression and decompressing techniques of file in unix.
b) Explain the various purpose of cat command. (5+5)
- 16) a) Explain process related command in Unix OS.
b) Define filter. Explain any four filter commands with syntax and example. (5+5)
- 17) a) Write a note on awk programming.
b) Write a shell scripts to reverse a number and check whether it is palindrome or not. (5+5)
- 18) a) Explain different states of process with a diagram.
b) Explain user management in Unix OS. (5+5)
- 19) a) Explain the different modes of Unix OS.
b) Describe branching control structures in shell programming with example. (5+5)
- 20) a) Explain IS command with different options.
b) Write a note on Unix system communication commands. (5+5)
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