



SE – 342

IV Semester B.C.A. Examination, September 2020
(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) What is the use of tee command ?
- 3) What is the concept of pipe ?
- 4) Define a zombie process.
- 5) Mention the different modes of vi editor.
- 6) What are the different types of quotes used in unix shell script ?
- 7) Mention different nodes.
- 8) What is purpose of df/du commands ?
- 9) Explain briefly I/O redirection in Unix.
- 10) Mention the different types of shell variables.
- 11) Give two examples of string manipulation with expr command.
- 12) What is the role of system administrator ?

SECTION – B

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

- 13) a) Explain Unix architecture with a neat diagram.
b) Explain the use of the following commands with example.
 - 1) Passwd
 - 2) date
 - 3) Cal
 - 4) Printf
 - 5) tput.

(5+5)

P.T.O.



- 14) a) Explain the use of grep command.
b) Explain the function mkfs command with example. (5+5)
- 15) a) What is user mode and kernel mode ?
b) Explain mounting and unmounting of files. (5+5)
- 16) a) Explain the Unix file system with a diagram. 5
b) Write a shell script for checking whether a given number is prime. 5
- 17) a) Explain positional parameters in Unix shell programming.
b) Explain different looping control structures used in Unix. (5+5)
- 18) a) Write a shell script to find whether a year is a leap year or not.
b) Explain SET command with suitable examples. (5+5)
- 19) a) Explain Unix system communication commands.
b) Explain domain name system with neat diagram. (5+5)
- 20) a) Explain user management in Unix O.S.
b) Explain the compression and decompression techniques in Unix. (5+5)

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