DOON UNIVERSITY, DEHRADUN

End Semester Examination, Second Semester, 2024

Academic Year 2023-24 (Even Semester)

School of Technology, Department of Computer Science

B.Sc. Honors (Computer Science)

CSS-152: Unix Administration and Shell Programming

Time Allowed 2.00 Hours Maximum Marks: 50

SECTION: A

Attempt any five questions. (5*3 marks) 1. Explain UNIX architecture in your words.

2. Write a short note on Shell variables with example.

3. Write a short note on vi editor and its mode.

4. Differentiate between r, s, R and S keys in vi editor with example.

5. Write a short note on cat command.

6. Which commands are used to perform following operations in UNIX:

(a) Copy the content of a file to another file and warn the user before overwriting the destination file.

(b) Move a group of files to a different directory.

(c) Count the number of lines in a file.

SECTION: B

Attempt any three questions. (3*5 marks) 7. What do you know about Shell? Discuss various wild-cards supported by Shell with example. **8.** Write a note on grep command. Also explain various options in grep with suitable examples. **9.** Explain ls command. Also explain ls options with examples.

10. What are various file permissions in UNIX? How can you change permission on a file? Give suitable example.

SECTION: C

Attempt all questions. (2*10 marks) 11. Explain the internal structure of UNIX file system. How can you store a 50GB file in UNIX? Explain in detail.

12. What are UNIX pipes and filters? Explain in detail with suitable examples.