2011000105020001
BCA (Sem-V)
Examination June - 2023
Unix and Shell Programming (502)

Seat No:

Student's Signature

[**Time: Three hours**]   [**Max. marks: 70**]

Instruction   **(1) All questions are compulsory.**
                    (2) Figures to the right indicate full marks.

Q.1   Answer The Following: (Any 7)   **(14)**
1. How to change the default primary prompt of shell?
2. Define redirection. What are the symbols for redirection?
3. When process 1 becomes init process?
4. What is purpose of Super block?
5. Explain touch command.
6. What is the meaning of NR and NF in awk?
7. Kernel is the heart of operating system. Justify it.
8. What is use of /dev/null file?

Q.2   Answer The Following (Any 2)   **(14)**
1. Explain any two filtering command of Unix.
2. Explain characteristics of Unix OS.
3. Explain booting process of Unix.

Q.3   Answer The Following   **(14)**
(a) Write a script to input file name and check whether entered file is directory or ordinary file.
    If ordinary file then display its content.

OR

(a) Write a script to input filename and display file in reverse order.(last line first)
(b) Explain kill and nice command.
(c) Explain any 2 backup commands.

Q.4   (a) Write commands for following: (Any 7)   **(14)**
1. Write a grep command to display line from emp file which start from word "emp".
2. Write a command to remove all the write protected file which name start from letter 'a'.
3. Remove all permissions of all users of the file emp.
4. Write a sed command to add blank line after each line in emp file.
5. Write a command to count no of characters in last line of file 1.
6. Sort the emp file on empname and department.

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7. Write a command to change all lowercase letters of a file l to upper case.
8. Display different designations from emp file.

Q.5   **Do as following: (Any 2)**   **(14)**
    (a) Explain inbuilt variables of awk.
    (b) Explain array in awk.
    (c) Explain structure of kernel.