BCA (Sem.–5)
LINUX OPERATING SYSTEM
Subject Code : UGCA1935
M.Code : 90318
Date of Examination : 12-12-2024

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write briefly :

   a) What is FIFO? Why it is called as names piples?

   b) Write syntax to use of :

      i) kill()

      ii) raise()

      iii) alarm()

      iv) cat command.

   c) How passwords are managed in Linux?

   d) List different types of users in Linux and why these are created?

   e) Discuss with names of single users, multi-users operating systems.

   f) Give examples of time-sharing, multiprogramming and multi-tasking O.S.

   g) How a bash shell script file is saved and executed?

   h) For what purpose setUID and setGID are used? Justify with example of each.

i) Give different types of user and how different privileges are assigned to each?

j) What is 'cron' program and its applications in Linux.

SECTION-B

2. How message are transferred in inter-process call (IPC) in Linux and how FIFO is used to manage? Discuss advantages and disadvantages of FIFO in IPC.

3. Discuss grep in Linux. How it is used to display the line which does not matches with all given patterns? Justify your answer with suitable example.

4. List and explain each operation that can be performed on both user directories and files in Linux.

5. What is the significance and application of package managing in Linux? How will you install a new package using 'dpkg' and 'RPM' tools?

6. Differentiate between 'vi' editor and 'word-processor'. Explain creation of *'fileName.c'*, save it, close it and again reopen it for editing using 'vi' tool.

7. Discuss the security features provided by Linux and how these are implemented.

(S3)-744