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Total No. of Pages : 02

Total No. of Questions : 07

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 pipes?
- 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.

**NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.**