

**Bachelor of Science (B.Sc.) Semester—IV (C.B.S.) Examination**

**COMPUTER SCIENCE**

**(Linux Operating System)**

**Paper—II**

Time : Three Hours]

[Maximum Marks : 50]

**Note :—** (1) All questions are compulsory and carry equal marks.  
(2) Draw neat and labelled diagram wherever necessary.

**EITHER**

1. (a) List Directory Structure of Linux Operating System. Give purpose of each directory in it. 5
- (b) Give syntax, purpose and one example of following commands :
  - (i) ls
  - (ii) mkdir
  - (iii) stat
  - (iv) mv
  - (v) cp5

**OR**

- (c) What is Shell ? List various shells available in Linux and explain any two. 5
- (d) Explain following types of file in Linux :
  - (i) User data files
  - (ii) System data files
  - (iii) System files.5

**EITHER**

2. (a) Explain vi editor in brief. 5
- (b) Why backup is needed ? Explain tar command. 5

**OR**

- (c) Explain gzip and gunzip command. 5
- (d) Write steps to format floppy disk in Linux Operating System. 5

**EITHER**

3. (a) Discuss top utility in Linux. 5

(b) Write octal permission for following :  
(i) read, write and execute for owner, group and others (i.e. all)  
(ii) execute to all  
(iii) read and write to all  
(iv) write to all  
(v) read and execute to all. 5

**OR**

(c) Give syntax purpose and example of following commands :  
(i) Chown 5  
(ii) Chgrp. 5

(d) What is PID ? Discuss PS Command in brief. 5

**EITHER**

4. (a) Explain KDE Desktop Environment. 5

(b) What do you mean by communication utility ? Explain write and wall commands. 5

**OR**

(c) Discuss strategies which can be implemented to create more space on Hard Disk. 5

(d) What is X windows system ? Explain how it works. 5

5. Attempt **all** :

(a) Explain Home Directory in Linux. 2½

(b) Explain role of Spool Directory while printing file in Linux. 2½

(c) Write steps to create group account. 2½

(d) What for mesg command is used ? Write command to enable message. Write command to disable message. 2½