

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

**COMPUTER SCIENCE**

**(Linux Operating System)**

**Paper-II**

Time : Three Hours]

[Maximum Marks : 50

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

**EITHER**

1. (a) Draw Directory structure of Linux. Explain the role of following directories in Linux OS :

- (i) /dev
- (ii) /etc
- (iii) /usr
- (iv) lost+found.

5

(b) Explain salient features of Linux OS.

5

**OR**

(c) State syntax, purpose and example of the following commands :

- (i) ls
- (ii) stat
- (iii) cp
- (iv) mv
- (v) cat.

5

(d) Explain the role of kernel in Linux Operating System.

5

**EITHER**

2. (a) Explain vi editor in brief.

5

(b) Why is back up needed ? Give difference between backup a file and copying a file. Write short note on tar ‘utility’.

5

**OR**

(c) Write steps to format floppy disk in Linux Operating System.

5

(d) State syntax, purpose and example of gzip and gunzip commands.

5

**EITHER**

3. (a) Under which directory ‘passwd’ file is kept in Linux Operating System ? What information is placed in ‘seven’ separate fields in ‘passwd’ file ? 5  
(b) Write steps to create group account. 5

**OR**

(c) Write short note on ‘symbolic file permission’. 5  
(d) State syntax, purpose and example of :  
    (i) Chown  
    (ii) Chgrp  
    (iii) Command. 5

**EITHER**

4. (a) What for ‘mesg’ command is used ? Explain ‘write’ and ‘talk’ commands. 5  
(b) Write short note on KDE desktop environment. 5

**OR**

(c) Describe X-window system. 5  
(d) Give syntax, purpose and example of du and df commands. 5

5. Attempt all :  
(a) Explain home directory in Linux. 2½  
(b) Explain Print Spool. 2½  
(c) Give syntax, purpose and example of kill command. 2½  
(d) Discuss strategies, which can be implemented to create more space on disk ? 2½