

5. Attempt **ALL** :—

- (a) Explain shutdown command with all options.  
2½
- (b) What is print spool ? Write command to send file to the printer.  
2½
- (c) Write chmod command to make file 'xyz' read only for all categories of users.  
2½
- (d) Write command to enable and disable message.  
2½

**TKN/KS/16/5876**

**Bachelor of Science (B.Sc.) Semester—IV**  
**(C.B.S.) Examination**  
**COMPUTER SCIENCE**  
**Paper—II**  
**(Linux Operating System)**

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) Explain the role of Kernel in Linux operating system.  
5
- (b) Draw directory structure of LINUX OS and explain purpose of each directory in it.  
5

**OR**

- (c) Give syntax, purpose and example of the following commands :
  - (i) ls

- (ii) cp
- (iii) mkdir
- (iv) rmdir
- (v) cat. 5
- (d) State features of LINUX OS. 5

**EITHER**

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

**OR**

- (c) Write steps to Format floppy disk in LINUX Operating System. 5
- (d) Explain how files are compressed and uncompressed while taking backup. 5

**EITHER**

- 3. (a) State syntax, purpose and example of the following commands :
  - (i) Chown
  - (ii) Chgrp. 5

- (b) Discuss top utility in LINUX. 5

**OR**

- (c) Under what conditions password must be changed ? Write steps to change password for user account. 5
- (d) What is PID ? Discuss PS command in brief. 5

**EITHER**

- 4. (a) Write syntax, purpose and example of managing the following disk space commands :
  - (i) df
  - (ii) du. 5
- (b) Explain following communication utilities :
  - (i) talk
  - (ii) write
  - (iii) wall. 5

**OR**

- (c) Explain GNOME desktop environment. 5
- (d) Discuss strategies which can be implemented to create more space on Hard disk. 5