

**NTK/KW/15 – 5876**

**Fourth Semester Bachelor of Science  
(B. Sc.) Examination**

**COMPUTER SCIENCE**

**(Linux Operating System)**

**Paper – II**

Time : Three Hours ]

[ Max. 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 and explain structure of Linux OS. 5  
(B) Explain following file types.  
(i) User data files.  
(ii) System data files.  
(iii) Executable file.  
(iv) Naming files. 5

**OR**

- (C) Give syntax and purpose of following commands :—  
(i) Mkdir.  
(ii) Rmdir  
(iii) CP

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Contd.

- (iv) ls
- (v) Stat. 5
- (D) State features of Linux OS. 5

**EITHER**

- 2. (A) What is Backup ? Explain backup and restoring the file system in Linux OS. 5
- (B) Explain working with vi editor. 5

**OR**

- (C) Explain tar command with example. 5
- (D) Write short notes on sending files to Printer. 5

**EITHER**

- 3. (A) What is Process ? Explain its types. 5
- (B) Write short notes on Changing File Ownership. 5

**OR**

- (C) Write syntax, purpose and example of PS command. 5
- (D) Explain User Accounts and Changing Password. 5

**EITHER**

- 4. (A) Explain KDE and GNOME environment. 5

- (B) What do you mean by communication utility ?  
Explain write and wall command. 5

**OR**

- (C) Give syntax and purpose of the following commands.  
(i) Talk  
(ii) Mesg. 5  
(D) Write short note on X window system. 5

5. Attempt any **ten** :—

- (a) Write rules for naming a file.
- (b) List any two popular shell in linux OS.
- (c) Give syntax and purpose of cat command.
- (d) Explain use of floppy disk.
- (e) Why backup is necessary ?
- (f) What is the use of gzip and gunzip command ?
- (g) State purpose of free command.
- (h) State syntax of kill command.
- (i) Write command to make file 'ABC.TXT' as Read-only.
- (j) Explain purpose of finger command.
- (k) Write steps for setting system clock.
- (l) Explain purpose of df and du command.

1 x 10