NKT/KS/17/5311

Bachelor of Science (B.Sc. I.T.) Semester–III (C.B.S.) Examination

LINUX OPERATING SYSTEM

Paper—IV

Time : Three Hours] [Maximum Marks : 50

N.B. :— (1) **ALL** questions are compulsory and carry equal marks.

(2) Draw neat and well labelled diagrams wherever necessary.

EITHER

1. (a) Give syntax, purpose and example of the following commands :

(i) mv (ii) cp (iii) pm (iv) cat (v) stat 5

(b) List various directories in LINUX file system and explain any four. 5

OR

(c) State role of shell in LINUX operating system. Explain following shells :

(i) Bourne shell

(ii) C shell

(iii) Korn shell. 5

(d) Write a short note on Anatomy of LINUX operating system. 5

EITHER

2. (a) Write steps to send a file to printer. 5

(b) Explain the purpose of fomatting a floppy disk. Write steps to format a floppy disk. 5

OR

(c) Write short note on vi text editor. 5

(d) Write steps to create an archive of entire home directory using tar command. 5

EITHER

3. (a) What is file permission ? How is it granted ? Explain. 5

(b) State purpose of top utility; explain how following actions can be performed using top utility.

(i) Changing priority of process

(ii) Killing a process

(iii) Sorting process according to amount of system memory being used.

(iv) Return to shell prompt. 5

OR

(c) Give syntax, purpose and example of chown and chgnp commands. 5

(d) Write short notes on following category of users :

(i) Super user

(ii) Individual

(iii) Fictitious

List seven fields/ entries in /etc/passwd file. 5

EITHER

4. (a) State salient features of KDE. List and discuss various elements of KDE desktop. 5

(b) Give syntax, purpose and example of df and du commands. 5

OR

(c) List various commands used for sending messages to other users and explain. 5

(d) Write a short note on "How to create additional free disk space". 5

5. Attempt **all** :

(a) Explain basic syntax for a command in LINUX. Give two examples to justify your answer. 2½

(b) List commands which helps to :

(i) Reduce/compress the size of a file

(ii) Uncompress it. 2½

Explain them in brief :

(c) Write procedure to make a file Read only. 2½

(d) Differentiate between who and who am i commands. 2½