KNT/KW/16/5161

**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

NVM—5440