Bachelor of Computer Application (B.C.A.) Semester—II Examination

LINUX OPERATING SYSTEM

Paper—V

Time : Three Hours]   [Maximum Marks : 50

Note :— (1) All questions are compulsory and carry equal marks.

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

EITHER

1. (a) Explain the directory structure of LINUX operating system in detail.   5

    (b) Explain different file types in Linux.   5

OR

    (c) Discuss logging in and logging out procedure in LINUX.   5

    (d) Explain the following commands with their syntax, purpose and suitable example :

        (i)   mkdir

        (ii)   cat

        (iii) cp

        (iv)   stat

        (v)   mv   5

EITHER

2. (a) What is vi editor ? Explain different modes of vi editor in detail.   5

    (b) Write short notes on :

        (i)   gzip

        (ii)   gunzip.   5

OR

    (c) What is backup ? Why backup is needed ? Explain backup and restoring the file system in LINUX OS.   5

    (d) What is print spool director ? Explain the purpose of print spool directory. Write steps for sending files to the printer in LINUX.   5

EITHER

3. (a) Define process. Explain different types of processes in LINUX in detail. 5

   (b) Discuss top utility & free commands in LINUX OS. 5

   OR

   (c) How user account is maintained in LINUX ? Write commands used to create and maintain user accounts in LINUX. 5

   (d) Write a short note on changing file ownership. Explain chmod command with suitable example. 5

EITHER

4. (a) Explain df and du command with its options. 5

   (b) Explain KDE and GNOME desktop environment in detail. 5

   OR

   (c) Write a procedure to create additional free disk space in detail. 5

   (d) Explain the following commands with syntax, purpose and example :

      (i) wall

      (ii) talk

      (iii) write

      (iv) mesg 5

5. (a) Write a syntax and purpose of PS command. 2½

   (b) Write the steps in formatting a floppy disk in LINUX. 2½

   (c) .How will you set a system clock ? 2½

   (d) What is Bash Shell ? Explain. 2½

Bachelor of Computer Application (B.C.A.) Semester—II (C.B.S.) Preliminary Examination 2017-18
LINUX OPERATING SYSTEM (Paper–V)

Time : Three Hours　　　　　　　　**Maximum Marks : 50**

EITHER

1. (a) Discuss the structure of LINUX Operating System. 　　5
   (b) Explain home directory in LINUX. Differentiate between root and home directory. 　　5

OR

   (c) Give syntax, purpose and example of the following commands: 　　5
   　　(i) ls　　(ii) cat　　(iii) cp　　(iv) mkdir　　(v) rmdir 　　5

   (d) Write short notes on:
   　　(i) Spawning process　　(ii) file types in Linux.

2. EITHER　　5

a) Explain the following modes in vi editor:
   　　(i) Command mode　　(ii) Insert mode
b) What is Backup? Explain Backup and restoring the file system in Linux O.S. 　　5

OR

(c) Explain tar command with example. Also explain restoration of file system. 　　5
(d) Explain how files are compressed and uncompressed using gzip and gunzip command. 　　5

3. EITHER
   (a) Write short notes on changing file ownership. Explain chmod command as well. 　　5
   (b) Explain how to change the password for user account and explain rules for changing password as well. 　　5

OR

   (c) Write short notes on :
   　　(i) Type of processes　　(ii) Creating group account. 　　5
   (d) Discuss top utility in Linux. 　　5

4. EITHER

(a) Explain the syntax of df and dk command.

(b) What do you mean by communication utility? Explain wall command.

OR

(c) Write the syntax and purpose of the following comm

i) Find   (ii) who   (iii) *finger*   *(iv) Mes*

(d) Explain KDE and GNOME desktop environment.

5. Attempt All :

(a) What is Bash Shell ? Explain.

(b) Explain the following : (i) PWD   (ii) *Priting a file*

(c) Explain syntax and purpose of free command.

(d) How will you set a system clock ?

Bachelor of Computer Application (B.C.A.) Semester—II (C.B.S.) Examination
LINUX OPERATING SYSTEM
Paper—V

Time : Three Hours] [Maximum Marks : 50

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

   (2) Draw neat and labelled diagram wherever necessary.

EITHER

1. (a) Discuss the structure of LINUX operating system. 5

   (b) Give syntax, purpose and example of the following commands :

   (i) cat

   (ii) cp

   (iii) rm

   (iv) ls

   (v) mkdir 5

OR

   (c) Write short note on spawing process. 5

   (d) Explain file system in LINUX. 5

EITHER

2. (a) Explain the following modes in Vi editor :

   (i) Command mode

   (ii) Insert mode. 5

   (b) What is backup ? Explain backup and restoring the file system in LINUX O.S. 5

OR

   (c) Explain tar command with example. Also explain restoration of file system. 5

   (d) Explain how files are compressed and uncompressed using gzip and gunzip command. 5

EITHER

3. (a) Write steps to create group account. 5

   (b) Why should password be changed at regular intervals ? Write short notes on :

   (i) Granting access to files.

   (ii) Killing process. 5

OR

   (c) Discuss top utility in Linux. 5

   (d) Write note on changing file ownership. Explain chmod command. 5

http://www.rtmnuonline.com

EITHER

4. (a) Describe X-Windows system.

   (b) Differentiate between df and du command. Give one example of each.

   OR

   (c) Explain KDE and GNOME desktop environment.

   (d) What do you mean by communication utility ? Explain 'write' and 'wall' command.

5. Attempt ALL :—

   (a) What is Bash Shell ? Explain.   2½

   (b) Explain the following :

      (i) PWD

      (ii) Printing a file.   2½

   (c) How will you make a file read only ?   2½

   (d) How will you set a system clock ?   2½

NRT/KS/19/2223

Bachelor of Computer Application (B.C.A.) Semester—II Examination
LINUX OPERATING SYSTEM
Paper—V

Time : Three Hours]   [Maximum Marks : 50

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

EITHER

1. (a) Explain ls command with at least five options.   5
   (b) Explain logging in and logging out procedure in LINUX.   5

   OR

   (c) Explain the different file types in LINUX.   5
   (d) Explain the following commands with its syntax, purpose and example :
       (i)   rm
       (ii) mv
       (iii) cp
       (iv) cat
       (v)   MKdir.   5

EITHER

2. (a) Explain Vi editor with its modes.   5
   (b) Differentiate between back up of files and copying of files. Explain the procedure to take back up in LINUX.   5

   OR

   (c) Explain the purpose of print spool directory. Write steps for sending files to printer in LINUX.   5
   (d) Explain gzip and gunzip command with example.   5

EITHER

3. (a) Explain how to change file permissions in LINUX with suitable example.   5
   (b) Which commands are used for creating and maintaining user accounts in LINUX ? Explain with example.   5

   OR

   (c) Explain different types of processes in LINUX.   5
   (d) Explain the following LINUX commands with its options and example :
       (i)   kill
       (ii) free.   5

EITHER

4. (a) Explain the concept of setting system clock.   5
   (b) Differentiate between df and du command. Give an example of each.   5

   OR

   (c) Explain the following commands with example :
       (i)   wall
       (ii) talk
       (iii) write
       (iv) mesg
       (v)   finger.   5
   (d) Explain in brief KDE and GNOME desktop environment.   5

5. Attempt **ALL** :
   (a) What is the importance of following LINUX directories :
       (i)   home
       (ii) bin ?   2½
   (b) Write the steps in formatting a Floppy disk in LINUX.   2½
   (c) Write the syntax and purpose of PS command.   2½
   (d) Write steps to locate unused files in LINUX.   2½

CLS—20205

NJR/KS/18/3223

Bachelor of Computer Application (B.C.A.) Semester—II (C.B.S.) Examination
LINUX OPERATING SYSTEM
Paper—V

Time : Three Hours]   [Maximum Marks : 50

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

(2) Draw neat and labelled diagram wherever necessary.

EITHER

1. (a) Discuss the structure of LINUX operating system.   5

   (b) Give syntax, purpose and example of the following commands :

   (i)   cat

   (ii) cp

   (iii) rm

   (iv) ls

   (v)   mkdir   5

   OR

   (c) Write short note on spawing process.   5

   (d) Explain file system in LINUX.   5

   EITHER

2. (a) Explain the following modes in Vi editor :

   (i) Command mode

   (ii) Insert mode.   5

   (b) What is backup ? Explain backup and restoring the file system in LINUX O.S.   5

   OR

   (c) Explain tar command with example. Also explain restoration of file system.   5

   (d) Explain how files are compressed and uncompressed using gzip and gunzip command. 5

   EITHER

3. (a) Write steps to create group account.   5

   (b) Why should password be changed at regular intervals ? Write short notes on :

   (i) Granting access to files.

   (ii) Killing process.   5

   OR

   (c) Discuss top utility in Linux.   5

   (d) Write note on changing file ownership. Explain chmod command.   5

EITHER

4. (a) Describe X-Windows system. 5

(b) Differentiate between df and du command. Give one example of each. 5

OR

(c) Explain KDE and GNOME desktop environment. 5

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

5. Attempt **ALL** :—

(a) What is Bash Shell ? Explain. 2½

(b) Explain the following :

    (i) PWD

    (ii) Printing a file. 2½

(c) How will you make a file read only ? 2½

(d) How will you set a system clock ? 2½

Bachelor of Computer Application (B.C.A.) Semester—II (C.B.S.) Examination

LINUX OPERATING SYSTEM

Paper–V

Time : Three Hours]   [Maximum Marks : 50

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

(2) Draw neat and labelled diagram wherever necessary.

EITHER

1. (a) Explain anatomy of Linux Operating System.   5

(b) Give syntax, purpose and example of the following commands :

(i) cat

(ii) cP

(iii) rm

(iv) ls

(v) mkdir   5

OR

(c) Write a short note on Spawning Process.   5

(d) Explain file system in Linux.   5

EITHER

2. (a) Write steps to FORMAT floppy disk in Linux Operating System.   5

(b) Write steps for sending files to printers in LINUX.   5

OR

(c) Explain command and insert mode in Vi editor.   5

(d) Explain how files are compressed and uncompressed using gunzip and gzip command.   5

EITHER

3. (a) Explain top utility in detail.   5

    (b) Explain the following commands :

         (i)   Chmod

         (ii) Chown.   5

    OR

    (c) Write steps to create a group account.   5

    (d) Define Process. Explain types of processes.   5

    EITHER

4. (a) Explain df and du command with syntax and example.   5

    (b) Write steps to locate unused files in Linux. Explain KDE Desktop environment in brief.   5

    OR

    (c) Explain purpose and syntax of write and wall command.   5

    (d) Describe x-windows system.   5

5. Attempt **ALL** :

    (a) What is Bash Shell ? Explain.   2½

    (b) Commands for gathering important system information.   2½

    (c) How will you make a file read only ?   2½

    (d) How will you set a system clock ?   2½

NTK/KW/15 – 5967

Second Semester Bachelor of Computer Application (B.C.A.) Examination

Paper – V

LINUX OPERATING SYSTEM

Time : Three Hours]   [Max. 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)   What is Linux OS ? Give the characteristics of Linux OS.   5

    (B)   Draw and Explain Directory Structure of Linux OS.
                                                           5

OR

    (C)   Explain following Commands with options :—

          (i)   stat   (ii)   cat

          (iii) rm   (iv)   mv

          (v)   CP   5

    (D)   Explain following file types :—

          (i)   User Data files

          (ii)   System Data files

          (iii) Executable files

          (iv)   Naming files.   5

EITHER

2. (A) Write a note on the following :—

   (1) Editor

   (ii) Formatting a Floppy Disk. 5

   (B) Explain the procedure for backing Up and Restoring the file system in LINUX OS. 5

OR

   (C) Explain following Printing File Type :—

   (i) Print spool directory.

   (ii) Sending files to printer. 5

   (D) Give syntax and purpose of following Commands :—

   (i) gzip   (ii) gunzip

   (iii) tar 5

EITHER

3. (A) Write procedure to Create User Account. 5

   (B) Write steps to create a Group Account. 5

OR

   (C) Define Process. Explain Process states in detail. 5

   (D) Write note on the following :—

   (i) Protecting files.

   (ii) Sharing files. 5

EITHER

4.   (A)   Write Syntax and purpose of following Comm-ands giving suitable example.

     (i) mesg   (ii) talk   5

    (B)   List various communication Utilies Supported by LINUX OS. Discuss two of them.   5

OR

    (C)   Explain following Commands with options :—
       (i) df   (ii) du
       (iii) find   (iv) wall
       (v) write.   5
    (D)   Explain GNOME and KDE desktop environment.
                             5

5.   Attempt any **ten** :—

    (a)   What is logging in and logging out ?

    (b)   What is shell prompt ?

    (c)   Give syntax and purpose of mkdir command.

    (d)   What command is used to send a file to printer ?

    (e)   What is the purpose of tar utility ?

    (f)   Give command for formatting file in Linux.

    (g)   Give purpose of top utility.

    (h)   Explain Kill command.

    (i)   State purpose of free command.

    (j)   What is GUI ?

    (k)   Explain the function of X• Window System

    (l)   Explain purpose of write command.

                          1 x 10

Bachelor of Computer Application (B.C.A.) Semester-II (C.B.S.) Examination

LINUX OPERATING SYSTEM

Paper–V

Time : Three Hours] [Maximum Marks : 50

Note :— (1) **All** questions are compulsory and carry equal marks.

      (2) Draw neat and labelled diagrams wherever necessary.

1. **EITHER**

    (a) Explain Anatomy of Linux Operating System. 5

    (b) What is shell ? Explain the types of shells in Linux. 5

  OR

    (c) Give syntax, purpose and example of the following commands : 5

       (i) is

      (ii) cat

      (iii) cp

      (iv) mkdir

      (v) rmdir

    (d) Write short notes on :

      (i) spawning process

      (ii) file types in Linux. 5

2. **EITHER**

    (a) Explain the following modes in vi editor : 5

      (i) Command mode

      (ii) Insert mode

    (b) What is Backup ? Explain Backup and restoring the file system in Linux O.S. 5

OR

(c) Explain tar command with example. Also explain restoration of file system. 5

(d) Explain how files are compressed and uncompressed using gzip and gunzip command. 5

3. **EITHER**

(a) Write short notes on changing file ownership. Explain chmod command as well. 5

(b) Explain how to change the password for user account and explain rules for changing password as well.

5

OR

(c) Write short notes on :

(i) Type of processes

(ii) Creating group account. 5

(d) Discuss top utility in Linux. 5

4. **EITHER**

(a) Explain the syntax of df and dk command. 5

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

OR

(c) Write the syntax and purpose of the following commands : 5

(i) find

(ii) who

(iii) finger

(iv) Mesg

(v) Talk

(d) Explain KDE and GNOME desktop environment. 5

5. Attempt **All** :

(a) List file types in Linux. Explain any one type. 2½

(b) Explain the following :

(i) PWD

(ii) Priting a file 2½

(c) Write note on protecting a file. 2½

(d) Explain KDE in Linux. 2½

Bachelor of Computer Application (B.C.A.) Semester–II (C.B.S.) Examination

LINUX OPERATING SYSTEM

Paper–V

Time : Three Hours]   [Maximum Marks : 50

N.B. :— (i)   **All** questions are compulsory and carry equal marks.

(ii) Draw neat and labelled diagrams wherever necessary.

1. **EITHER**

   (a)   Write a procedure to login and logout for LINUX Operating System. Write steps for changing shell prompt.   5

   (b)   Give syntax, purpose and example of the following commands in LINUX.   5

   (i)   ls

   (ii) mk dir

   (iii) rm dir

   OR

   (c)   Write a note on spawning processes.   5

   (d)   Explain Cat command in detail with all of it's uses.   5

2. **EITHER**

   (a)   Write a note on vi editor.   5

   (b)   Write a note on :

   (i)   gzip

   (ii) gunzip commands.   5

   OR

   (c)   Write steps to FORMAT floppy disk in LINUX Operating System. Give purpose of formatting a floppy disk.   5

   (d)   Explain purpose of print spool directory and write steps for sending files to printer in LINUX.
                                                                                        5

3. **EITHER**

   (a)   Write steps to create group account.   5

   (b)   Write syntax, purpose and example of the following commands :   5

   (i)   PS

   (ii) free command

   OR

   (c)   Explain chmod command in detail.   5

   (d)   Write note on :

   (i)   Creating a process

   (ii) Killing a process.   5

4. **EITHER**

    (a)   Write steps to locate unused files in LINUX.   5

    (b)   Explain X-window system in detail.   5

<div align="center">OR</div>

    (c)   Explain following the communication utilities :

        (i)   mesg   5

        (ii)   write   5

    (d)   Explain GNOME and KDE desktop environment.

5.   Attempt all :

    (a)   Explain directory structure of LINUX Operating System.   2½

    (b)   Explain tar command in detail.   2½

    (c)   Write a note on Octal File permissions.   2½

    (d)   Write syntax purpose and example of finger command.   2½

Bachelor of Computer Application (B.C.A.) Semester–II Examination

LINUX OPERATIONS SYSTEM

Paper–V

Time : Three Hours]   [Maximum Marks : 50

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

        (2)   Draw neat and labelled diagram wherever necessary.

1.   **EITHER**

   (A)   Explain logging in and logging out procedure in Linux O.S. Also explain anatomy of Linux O.S.   5

   (B)   Explain directory structure of Linux O.S.   5

   OR

   (C)   Give syntax and purpose of the following commands :   5

       (i)   Mkdin   (ii)   Rmdir

       (iii)   cp   (iv)   ls

       (v)   stat.

   (D)   Explain the procedure for changing the shell prompt.   5

2.   **EITHER**

   (A)   Explain the following modes in Vi editor :   5

       (i)   Command mode.

       (ii)   Insert mode.

   (B)   Explain Backup and restoring of the file system in Linux O.S.   5

   OR

   (C)   Explain gzip and gunzip commands.   5

   (D)   Explain print spool directory in Linux O.S.   5

3.   **EITHER**

   (A)   What is process ? Explain its types.   5

   (B)   Write a procedure to make a file read only. How will you protect a file ?   5

   OR

   (C)   Write syntax, purpose and example of PS command. Also explain the pwd command.   5

   (D)   Write short note on changing file ownership. Also explain chmod.   5

4. **EITHER**

    (A) Explain how to create additional free disk space in Linux O.S. How will you locate unused files ?

        5

    (B) Write a short note on X Window system.   5

OR

    (C) Give syntax and purpose of the following commands :   5

        (i) Talk

        (ii) Mesg.

    (D) Write a short note on GNOME.   5

5. Attempt ALL :

    (A) Explain spawning process.   2½

    (B) Explain syntax and purpose of 'tar' command.   2½

    (C) Explain syntax and purpose of free command.   2½

    (D) Explain how to find out user who is currently logged in Linux O.S..   2½

TKN/KS/16/5967

Bachelor of Computer Application (B.C.A.)

Semester—II (C.B.S.) Examination

LINUX OPERATING SYSTEM

Paper—V

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) Discuss the structure of LINUX Operating System.

5

(b) Explain home directory in LINUX. Differentiate between root and home directory.   5

OR

(c) Write short note on spawning processes.   5

(d) Write procedure to login and logout for LINUX Operating System. Write steps for changing shell prompt.   5

EITHER

2. (a) Write short note on vi editor. 5

(b) Explain purpose of print spool directory. Write steps for sending files to printer in LINUX. 5

OR

(c) Write short note on Backing up and restoring the File System. 5

(d) Write steps to FORMAT floppy disk in LINUX Operating System. Give purpose of formatting a floppy disk. 5

EITHER

3. (a) List different categories in which a process can be divided. Explain each of them in brief. 5

(b) Explain top utility. 5

OR

(c) Why password should be changed in regular intervals ? Write short notes on :

(i) Granting access to files

(ii) Killing process. 5

(d) Write steps to create group account. 5

EITHER

4. (a) Describe X-window system. 5

(b) Discuss strategies which can be implemented to create more space on Hard disk. How can system users be restricted from taking up too much disk space ? 5

OR

(c) Differentiate between df and du command. Give one example of each. 5

(d) Write steps to locate unused files in LINUX. Explain KDE Desktop environment in brief. 5

5. Attempt **ALL** :—

(a) Explain spanning process. 2½

(b) Write a short note on Backing up of file system. 2½

(c) Explain syntax and purpose of free command. 2½

(d) Explain GNOME DESKTOP Environment. 2½