E 6240

Reg. No..................................

Name....................................

B.C.A./B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, SEPTEMBER 2024

Sixth Semester

Choice Based Core Course–LINUX OPERATING SYSTEM

(Common for B.C.A. and B.Sc. Computer Applications)

(Prior to 2013 Admissions)

Time : Three Hours   Maximum Weight : 25

Part A (Objective Type Questions)

*Answer **all** questions.*
A bunch of four questions carries a weight of 1.

I.   1 The command interpreter in Linux operations system is ————.

2 The file which stores the user account and password information is ————.

3 ———— is a special user account used for system administration.

4 The command used to remove a directory is ————.

II. 5 How many primary partitions can exist on one drive ?

    (a) 1.   (b) 2.

    (c) 4.   (d) 8.

6 Which command is used to create LINUX file systems ?

    (a) *f*disk.   (b) mk*f*s.

    (c) mount.   (d) *f*sck.

7 Which command is used to list the contents of directories ?

    (a) dir.   (b) ls.

    (c) ps.   (d) cat.

8 The command used to count the number of lines in a file is :

    (a) $wc - l$.   (b) $wc - w$.

    (c) $wc - p$.   (d) $wc - c$.

III. 9 The command line utility that filters out the repeated lines in a file is ————.

10 Expand FTP.

11 ———— command is used to remove a package.

12 DHCP stands for ————.

IV. 13 ———— command gives the prime factors of a number.

14 Security permissions on files can be changed using the command.

15 Write an example for a filter command.

16 The working directory can be changed using ———— command.

(4 × 1 = 4)

Part B

Answer any **five** *questions.*
Each question carries a weight of 1.

17 What are the features of LINUX ?

18 Write four commands for files and directories.

19 What is the difference between shell and kernel ?

20 What is the function of cut and paste commands ?

21 Write notes on DHCP.

22 What are shell variables ?

23 What is the difference between log and configuration files ?

24 What is squid ?

(5 × 1 = 5)

Part C

Answer any **four** *questions.*
Each question carries a weight of 2.

25 Explain the architecture of a LINUX system.

26 Explain how files are created using vi editor.

27 Explain the role of system administrator.

28 Write notes on :

   (a) grep and egrep commands.

   (b) head and tail commands.

29 Explain file security and methods.

30 Explain the looping statements in bash.

$(4 \times 2 = 8)$

Part D

Answer any **two** *questions.*
Each question carries a weight of 4.

31 What are processes in LINUX ? Explain the working and scheduling of processes ?

32 Explain the creation and management of users and groups.

33 Explain the different types of shells in LINUX.

$(2 \times 4 = 8)$