TILAK MAHARASHTRA VIDYAPEETH, PUNE
BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)
EXAMINATION: DECEMBER - 2022
SEMESTER - V
Sub: Operating System-Linux (BCA–BCA-542-20/BCA-CS-542-20)

Date : 15/12/2022   **Total Marks : 60**   **Time: 10.00 am to 12.30 pm**

Instructions:
1. *All questions are compulsory unless and otherwise stated.*
2. *Bold figures to the right of every question are the maximum marks for that question.*
3. *Candidates are advised to attempt questions in order.*
4. *Answers written illegibly are likely to be marked zero.*
5. *Use of scientific calculators, Log tables, Mollier Charts is allowed.*
6. *Draw neat and labelled diagrams wherever necessary.*

Q.1. **Fill in the blanks.**   **(05)**

1. ----------- is the name of the administrator in Linux.

   a) admin   b) administrator

   c) root   d) None of Above

2. The --------- directory contains user's data in Linux.

   a) /boot   b) /var

   c) /data   d) /home

3. The UID for first user created in Linux is ------------.

   a) one   b) two

   c) thousand   d) None of Above

4. To create the directory in Linux ---------- command is used.

   a) dir   b) mkdir

   c) md   d) None of above

5. To create softlinks in Linux -------- command is used.

   a) ln   b) link

   c) softlink   d) None of above

Q.2. **State True/False.**   **(05)**

1. The date command is used to show date and time in Linux.

2. The delete command is used to delete files and directories in Linux.

3. The default shell in Linux is bash.

4. In Linux cat command is used to view the contents of a file.

5. To move files in Linux mv command is used.

Q.3.   Answer the following. (Solve any 5)   **(10)**

1. List the advantages of Linux.

2. What are features of bash shell? List them

3. List different types of help available in Linux.

4. Define kernel space in Linux.

5. List the basic file permissions in Linux with its numeric value.

6. What is the use of /boot directory in Linux?

Q. 4.   Answer the following in detail. (Solve any 6)   **(30)**

1. What is VIM editor? Explain working of it with different modes and its functions.

2. Explain useradd and passwd commands in Linux with options and examples.

3. What is the use of SUID and SGID permissions in Linux? How to set it? Explain with examples.

4. Explain use of yum command with options and examples.

5. Explain working of xfsdump and xfsrestore commands with examples.

6. Write a procedure to create swap partition in Linux.

7. Explain the use of chown and chgrp commands with various options and examples.

Q. 5.   Answer the following in detail. (Solve any 1)   **(10)**

1. Explain any four network management commands in Linux with options and examples.

2. Define process. What are its different process states? Explain any three process management commands with options and examples.

_____