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BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)
EXAMINATION: DECEMBER- 2024
SEMESTER - V
Sub:Linux (BCA –542-18)

Date : 26/12/2024

Total Marks : 60

Time: 10.00am To 12.30pm

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 labeled diagrams wherever necessary.

Q.1. Fill in the blanks.

(05)

- Linux is based on ----- operating system.
 - UNIX
 - Windows
 - IOS
 - None of Above
- To change the file permissions in Linux ----- command is used.
 - chown
 - chgrp
 - chmod
 - change
- To create links in Linux ----- command is used.
 - link
 - ln
 - lnk
 - None of Above
- The name of the administrator in Linux is -----
 - admin
 - administrator
 - root
 - user
- To create a directory in Linux ----- command is used.
 - dir
 - mkdir
 - md
 - None of above

Q.2. State True/False.

(05)

1. Linux is Open Source Software (Free OS)
2. The /etc directory contains all configuration files in Linux.
3. There are seven run levels (init levels) in Linux.
4. The delete command is used to delete files in Linux.
5. There are three basic file permissions in Linux, read, write and execute.

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

(10)

1. List the advantages of Linux operating system.
2. What is inode in Linux?
3. What is the use of /home directory in Linux?
4. List the commands to shutdown the Linux operating system.
5. What is the use of VIM editor in Linux? List any 2 modes of operations.
6. List different process states in Linux.

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

1. What are different help levels are available in Linux? Explain with examples.
2. Explain the working of cp and rm commands in detail with various options & examples.
3. Explain the working of rpm command with options and examples.
4. Define process in Linux. What is the use of pstree, ps, and top commands? Explain with examples.
5. What are different run levels (init levels) in Linux? Explain with examples.
6. Explain working of groupadd & groupdel commands with various options & examples.
7. What is use of ifup, ifdown, & ping commands in Linux? Explain with options examples.

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

1. Explain Linux Directory Structure (Linux File System Hierarchy) in detail with diagram.
 2. What is rescue environment in Linux? Explain in detail.
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