C.U.SHAH UNIVERSITY Summer Examination-2022

| Subject Name : Linux Programming | | | | | | | | | | |
|--|-----------|--|-----------------|-----------------|--|--|--|--|--|--|
| Subject | Code :4 | CS06BLN1 | Branch: B.C.A. | Branch: B.C.A. | | | | | | |
| Semester: 6 | | Date: 04/05/2022 | Time: 02:30 To | 05:30 Marks: 70 | | | | | | |
| Instructions: (1) Use of Programmable calculator & any other electronic instrument is prohibited. (2) Instructions written on main answer book are strictly to be obeyed. (3) Draw neat diagrams and figures (if necessary) at right places. (4) Assume suitable data if needed. | | | | | | | | | | |
| Q1 A | | following MCQs. | | 14 | | | | | | |
| 1) | / | hich command is used to r | | | | | | | | |
| | a) | delete | b) rm | | | | | | | |
| | c) | dm | d) del | | | | | | | |
| 2 |) W | hat is the core of Linux op | erating system? | | | | | | | |
| | a) | Command | b) K | lernel | | | | | | |
| | c) | Terminal | d) A | ll of the above | | | | | | |
| 3 |) Id | entify OS, which is not bas | sed on Linux. | | | | | | | |
| - , | a) | - | | entOS | | | | | | |
| | c) | | , | sdOS | | | | | | |
| 4 |) W | | | | | | | | | |
| -, | a) | hich command is used to c Cp | b) cat | | | | | | | |
| | c) | - | d) vi | | | | | | | |
| 5 |) W | Which command is used to display characteristics of a process? | | | | | | | | |
| | a) | pid | b) p | - | | | | | | |
| | c) | pau | d) p | | | | | | | |
| 6 |) Li | nux was developed by | | | | | | | | |
| 0 | a) | Linus Torvalds | | ennis Ritchie | | | | | | |
| | (a) c) | Ken Thompson | , | inus Thruval | | | | | | |
| | 0) | ixen mompson | u) L | mus imuvu | | | | | | |
| 7 |) Hi | idden files can be view usin | ng | | | | | | | |
| , | a) | ls -a | - | -h | | | | | | |
| | c) | | , | -k | | | | | | |
| | | | | | | | | | | |

Which of the following directories contains configuration files in Linux?. 8) /dev/

a)

b) /etc/



| | | c) | /bin/ | d) | /root/ | | | |
|-------|---|--|---|----------|---------------|--------|--|--|
| | | | | | | | | |
| | 9) Which command changes a file's group owner? | | | | | | | |
| | | a) | chgrp | b) | Chown | | | |
| | | c) | change | d) | cgroup | | | |
| | 10) is a default linux directory contains many of the linux command | | | | | | | |
| | | a) | /bin | b) | /doc | | | |
| | | c) | /lib | d) | /etc | | | |
| | 11) Which command is used to display name of your operating system? | | | | | | | |
| | | a) | uname | b) | los | | | |
| | | c) | kernel | d) | dos | | | |
| | 12) | 12) Which shell is the default shell used in Linux OS? | | | | | | |
| | | a) | csh | b) | bash | | | |
| | | c) | rsh | d) | tsh. | | | |
| | 13) | Which | i is used to provide a total count of all | lines ir | n a file? | | | |
| | , | a) | ls | b) | ln | | | |
| | | c) | tc | d) | wc | | | |
| | 14) | Which | n command is used to create a director | v? | | | | |
| | | a) | create | b) | dir | | | |
| | | c) | mkdir | d) | None of these | | | |
| | | , | | , | | | | |
| Attem | <u>ipt any</u> | FOUR | from following. | | | | | |
| Q2 | Attem | pt all q | luestions | | | 14 | | |
| | a) De | efine OS | S Explain in detail features of Linux | | | 7 | | |
| | a) Define OS. Explain in detail features of Linux.b) Define Shell. Explain types of Shell. | | | | | , 7 | | |
| 0.1 | • • • | 4 11 | <i></i> | | | 14 | | |
| Q3 | Attempt all questions | | | | | | | |
| | a) Define kernel. Explain architecture of Linux. | | | | | | | |
| | b) W | rite a no | ote on: Ext2 and Ext3 file systems. | | | 7 | | |
| Q4 | Attem | pt all q | uestions | | | 14 | | |
| | \ - | C" | | | | 7 | | |
| | a) Define root. Explain power of root user. Explain process to create a user.b) Define file permission. Explain chown and chmod command with examples.7 | | | | | | | |
| o - | | | | | | | | |
| Q5 | Attempt all questions 14 | | | | | | | |
| | a) Define network utilities. Explain hostname, ping, and netstat commands. | | | | | | | |
| | b) Explain cat, sort and we commands with suitable examples. 7 | | | | | 7 | | |
| | | | | | | | | |



Q.-6 Attempt all questions

| | a) What is SED? How does SED Work? Explain any two SED commands.b) Define System call. Explain file management system calls. | 7 7 | |
|----|--|--------|--|
| Q7 | Attempt all questions | 14 | |
| | a) Write a note on: System call on process management.b) Define vi editor. Explain different modes in vi editor. | 7 7 | |
| Q8 | Attempt all questions | | |
| | a) Write a shell script to find factorial of a given number.b) Write a shell script to check entered character is vowel or not. | 7 7 | |

