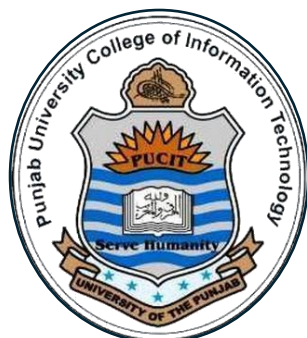# Faculty of Computing and Information Technology

University of the Punjab

BSDS Fall 2021 Morning

Lab Quiz

Student ID:	Name:
Section: Morning/Afternoon	Student Signature:

Course Code: CC-217-L　　　　　　**Course Tile: Operating System Lab**

Maximum Time: 105 Mins　　　　　　**Maximum Marks: 40**

Instructions

- Read questions carefully before attempting.
- Attempt all questions on the answer sheet.
- If there is ambiguity in the paper, benefit will be given to the students.
- Understanding is the part of the examination; therefore, no query will be entered during exam.
- Start with the name of your creator, don't panic, He is always with you, don't cheat He is watching you.

Questions	1	2	3	Total
Total Marks	10	10	20	40
Marks Obtained				

Question 1:
Basic Shell Commands

- **Write and define two Linux commands that you like.**

- **Suppose I want to make a .txt document named Linux, and I want to write Linux is fun in it, What steps do I need to do to perform this task.**

- **How to copy the contents of a file /etc/passwd to f2.txt without using cp command.**

- **Explain What does mkdir and touch commands do and what is the difference between them.**

- **How can we count the occurrence of a word root in /etc/passwd?**

Question 2:
PPFDT and Hard link / Soft link

- **Draw the PPFDT of the command written below**
  grep -o root /etc/paaswd | wc -l

- **Draw the PPFDT of the following command.**
  sudo ls/proc/1/fd | less

- **How do soft links differ from hard links in terms of their ability to link to directories?**

- **What are some limitations of hard links compared to soft links?**

<u>**Question 3:**</u>
File architecture and File permissions

- **To copy f1.txt from ~/d1/d2/d3/ft.txt to ~/d4/d5/d6 directory wat should be the minimum permissions on these directories and why? Explain your answer.**

- **Name all 7 types that exist in Linux.**

- **Suppose LazyCat a regular user a file f1 and wants to modify its permissions to rwxrw-r--- what would be the command to modify its permissions? Can root user change LazyCat's file permissions?**

- **In the permission string `-rwxr-xr--`, what do the first three characters signify?**

- **When using the `chmod` command, what is the difference between symbolic and numeric(octal) modes?**

- **Convert the octal 644 into symbolic permissions like rwxrwxrwx form.**

- **After Using Linux Which OS do you prefer Windows or Linux. Also give reason accordingly.**