# Department of Computer Science
## Faculty of Computing and Information Technology
## University of the Punjab

CC-403 Information Security **BSCSF21 Morning (Term Spring 25)** Student ID:_____

## Quiz 04

**Time: 12 mins**                                                                                          **Marks: 10**

<u>**Quiz will be cancelled if any student is found looking at his/her neighbor's paper or writing after the expired time.**</u>

A. Usually, device drivers live in kernel space, however, in Android OS, the device drivers live inside the Hardware Abstraction Layer. Mention two reasons of this.                                                    **[2]**

B. When you unzip an apk file, there is a directory named META-INF. Name the files of this directory and their importance in one line each.                                                    **[2]**

C. In context to the Android booting process, differentiate between IPL and SPL                          **[2]**

D. What do you mean by insecure data storage? Mention some mitigation techniques against this vulnerability                                                                                          **[2]**

E. How encryption and data protection differ in Android Kernel and Linux Kernel                          **[2]**