

The University of Lahore

CS-11303 Operating Systems Assignment 1

Due Date: Sunday 16 October 2022

- References in APA style should be mentioned in the last page of your answer booklet/word document, if any information is searched from internet resources.
- Both types of submissions (handwritten or typed,) are acceptable.
- DO NOT forget to attach **assignment cover letter**.

Write comprehensive answers of the following questions:

- Q-1 What are the two main functions of an operating system?
- Q-2 What is multiprogramming?
- Q-3 What is spooling? Do you think that advanced personal computers will have spooling as a standard feature in the future?
- Q-4 On early computers, every byte of data read and write was directly handled by the CPU. What implications does this organization have for multiprogramming?
- Q-5 Why was timesharing not widespread on second generation computers?
- Q-6 The family of computers idea was introduced in the 1960's with the IBM system/360 mainframes. Is this idea now dead or does it alive on?
- Q-7 List some differences between personal computers operating systems and mainframe operating systems.
- Q-8 Every nanoseconds one instruction emerges from the pipeline. How many instructions the machine will execute in one second?
- Q- 9 How many KB are there in 3-TB?