COMSATS University Islamabad, Lahore Campus

☑ **Sessional-1**   ☐ **Sessional-II**   ☐ **Terminal Examination** – **SPRING 2021**

Course Title:	Operating Systems			Course Code:	CSC322 Credit Hours:	3(2,1)
Course Instructor/s:				Programme Name:	BS Software Engineering	
Semester:	5th	Batch: SP19-BSE	Section:		Date:	30th March 2021
Time Allowed:	**50 Minutes**			**Maximum Marks:**		**10**
Student's Name:				Reg. No.		

Question # 1: *(2)*
Assume you are a designer of C compiler, how important are system calls to you in this scenario?

Question # 2: *(2)*
Discuss why we cannot design an Operating System that is user friendly and customizable at the same time.

Question # 3: Consider the following scenario *(2+2+2)*

Process	Burst Time	Arrival time	Priority
P1	9	3	5
P2	6	5	3
P3	7	6	4
P4	8	9	1
P5	4	11	2

Calculate the average waiting time in case of
  a) First Come First Served
  b) Round Robin
  c) Shortest Job First
Note: Please consider CPU time slice as 1 wherever required.

Good Luck

Being ignorant is not so much a shame, as being unwilling to learn.
~Benjamin Franklin