Government College University Lahore

Department of Computer Science

Roll #: _____ **Section:**_____**Name:** _____

Course Title: Operating System **Semester:** 6th

Course Code: CS -2205 **Academic Year:** 3

Instructors: Dr. Awais Qasim & Ms. Ayesha Atta **Date:** 05-04-2021

Exam: Mid Term (Objective) **Time Allowed:** 90 Min

NOTE: Attempt all questions on plain pages (Hand Written Format) and submit Single PDF File of attempted Paper/Pages over MS Teams in given time.

Q1. Describe two ways by which we can handle priorities in FCFS? (2)

Q2. Describe two scenarios where Operating System works as a resource allocator? (2)

Q3. How does the use of DMA make a computer fast? Justify your answer. (2)

Q4. With respect to Operating Systems structure, how are we able to install latest updates without compiling the complete operating system? (2)

Q5. Using FCFS, preemptive SJF and non-preemptive SJF, Round Robin (Q=3) find out the individual and average wait time for each process. (5)

Process	Arrival Time	Burst Time
P1	4	5
P2	3	2
P3	2	1
P4	1	1
P5	5	2
P6	0	3
P7	7	5

Q6. Why is creating a new thread considered as less computationally exhaustive as compared to creating a new process? (2)

Q7. Describe different scenarios in which a process executing on a CPU leaves it? (2)

Q8. How can a modern Operating System execute without a medium term scheduler? Discuss in detail. (3)