

INTERNAL ASSIGNMENT

Course Code: OMC-109

Last Date of Submission: 15/01/24

Course Title: Operating Systems & Computer Networks lab

Maximum Marks: 30

Session: July 2023

Please submit answers to any four programs, accompanied by output snapshots. Ensure that at least two sets of outputs are provided for two different inputs. (6*4=24)

Q.No.	Question
1	Write a C program to Simulate the following Memory management algorithm-First fit
2	Write a C program to Implement the optimal page replacement algorithm
3	Implement a program in C to extract process ID (PID) and parent process ID (PPID)
4	Simulate the following CPU scheduling algorithms-FCFS
5	Write a C program to Implement the SSTF Disk scheduling
6	Implement the producer consumer problem with solution using semaphore

Compulsory question: Explain the installation steps for Cisco Packet Tracer, and include snapshots for clarification. (6*1=6)