ECHELON INSTITUTE OF TECHNOLOGY

Department of Computer Applications

Title of Assignment: Introduction To Operating System (BCA-DS-203)

Course: BCA (Data Science)
Date of Issue: 28 August, 2023
Course Unit included: 2nd
Session: 2023-24

Semester: 3rd
Date of Submission: 04 Sep, 2023
Assignment Number: 2nd
Max. Marks: 30

Learning Outcomes:

LO1. To understand the basic idea of CPU scheduling.
LO2: To practice the numerical problem involved in various CPU scheduling algorithms.
LO3: To understand the deadlock characterization and algorithm to solve it.

Q.N.	Question's Statement	Bloom's Taxonomy Level	Course Outcome
1	List out the various process states and briefly explain the same with a state diagram.	L2- Understanding	CO-I
2	A scheduling mechanism should consider various scheduling criteria to realize the scheduling objectives. List out all the criteria.	L6- Creating	CO-II
3	Describe the purpose of the banker's algorithm.	L6- Creating	CO-II
4	Consider the set of 5 processes whose arrival time and burst time are given below- Process Id / Arrival time / Burst time P1 / 3 / 1 P2 / 1 / 4 P3 / 4 / 2 P4 / 0 / 6 P5 / 2 / 3 If the CPU scheduling policy is SJF pre-emptive, calculate the average waiting time and average turnaround time.	L3- Apply	CO-I

Course Outcome Evaluation Matrix:

CO/Ques	Qns-1	Qns-2	Qns-3	Qns-4
CO-1	√	-------	-------	√
CO-2	-------	√	√	-------
CO-3	-------	-------	-------	-------
CO-4	-------	-------	-------	-------

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Signature of Faculty