

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: 16 September, 2023
Course Unit Included: 3rd
Session: 2023-24

Semester: 3rd
Date of Submission: 20 Sep, 2023
Assignment Number: 3rd
Max. Marks: 30

Learning Outcomes:

LO1: To understand the concept of memory management.
LO2: To understand the terminology of addressing in memory management.
LO3: To understand the concept of paging and virtual memory utilization.

Q.N.	Question's Statement	Bloom's Taxonomy Level	Course Outcome
1	Explain the main function of the memory-management unit.	L2- Understanding	CO-3
2	a) Describe dynamic loading and dynamic linking. b) Explain page fault and its effect on the performance of the demand-paged memory system.	L1- Describe L2- Understanding	CO-3
3	Discuss contiguous and non-contiguous memory allocation.	L2- Understanding	CO-3
4	Consider a reference string: 4, 7, 6, 1, 7, 6, 1, 2, 7, 2. the number of frames in the memory is 3. Find out the number of page faults respective to: a) Optimal Page Replacement Algorithm b) FIFO Page Replacement Algorithm c) LRU Page Replacement Algorithm	L3- Apply	CO-3

Course Outcome Evaluation Matrix:

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

Assignment prepared by: Mohammad Danish



Signature of Faculty