



NATIONAL UNIVERSITY  
OF COMPUTER & EMERGING SCIENCES

CS2006 – Operating System

Fall 2023

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ID: \_\_\_\_\_

Name: \_\_\_\_\_

Quiz # 4

Marks: 10

Date: \_\_\_\_\_

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1. When does a Page fault occur?

A page fault is a trap that occurs when the requested page is not loaded into the memory. In other words, when a program tries to access a chunk of memory that does not exist in physical memory (main memory) causes a page fault.

A mapping is required to be added to the virtual address space of the process to access the page. The page contents are loaded from a secondary storage, such as a disk. The page fault is detected by the memory management unit, but the operating system's kernel handles the exception by making the required page accessible in the physical memory. If the access is found to be illegal, OD denies that memory access.