



NATIONAL UNIVERSITY
OF COMPUTER & EMERGING SCIENCES

CS2006 – Operating System

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ID: _____

Name: _____

Quiz # 4

Marks: 10

Date: _____

1. A page can have different access rights, e.g. read, write, execute, etc. What purpose does they serve? What can be its advantage?

These rights make sure that the process does not harm the system intentionally or unintentionally. For example, normally we don't make changes to a code during runtime, so the page which contains code might be given read and execute access but not 'write'. One main advantage of this approach is providing a main line of defense against most of malware attacks. A malware normally works by first writing the malicious code onto a memory location and then gets that location executed somehow. When access rights are given in a way that both the actions are made sure not to be performed together (making sure that 'write' and 'execute' are not permitted for a single page), we prevent our system against any such attacks.