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**Subject:** System Security 1

## **Assignment 1**

### **Question 1**

Discuss the CIA and its threats.

### **Answer**

- **CONFIDENTIALITY**

Confidentiality refers to the keeping of the organization's data private. This often means that only authorized users and processes should be able to access or modify data.

- **INTEGRITY**

Integrity means that the data can be trusted. It should be maintained in a correct state, kept so that it may not be tampered with, and should be correct, authentic, and reliable.

- **AVAILABILITY**

This principle ensures systems, applications and data are available and accessible to authorized users when they need them. Networks, systems and applications must be constantly up and running to ensure critical business processes are uninterrupted.

The following are the threats of the CIA Triad

- Denial of Service (DoS) and Distributed Denial of Service (DDoS) attacks.
- Spoofing (masquerading)
- Telnet attacks.
- Password cracking programs.
- Viruses.
- Trojans and worms.