



COMSATS University Islamabad

Department of Computer Science

Information Security CSC432

Course Instructor Dr. Tehsin Kanwal
Total Marks 10

Assignment No 1

CLO-1: Discuss the fundamental concepts, policies, standards and ethical issues of information security.

Q1: Consider three organizations of different categories having different types of data i.e. Banks, Universities, Hospitals, Federal institutes like NADRA, NAB, which are in need to secure their information from various cyber security threats and natural disasters as well. Answer the following questions in information security context.

- What should be their sources of cyber threats?
- What are different types of threats that they may encounter at application and infrastructure level?
- Generate CNSS models for each mentioned scenarios.

Q2: Students will identify and search for latest security issues/Attacks in following domains/Technologies as first step of application of information security adversarial concepts in mentioned areas.

1. Artificial intelligence
2. Blockchain Technology
3. Quantum Computing
4. Data Privacy
5. Federated Learning

Directions

- For Question 2 please prepare a comprehensive Finding Table of latest Information Security threats/Attacks for above mentioned Topics/Domain/Technology.
- You can use latest research articles and useful internet resources about the topic with proper references.
- Submission Deadline: 18 September, 2025.
- Students are advised to Submit Assignment in hard form in class.

Note: Group Assignment : Allowed students per Group 3 members.