CS204 Assignment 1 Solution Fall 2026

Question 1

1. Type of cyberattack: The cyberattack described in this scenario is known as a Phishing Attack. In this attack, criminals send fake emails that appear to come from a trusted organization, such as a university IT department, to trick users into sharing their personal information and login credentials.

2. How the attackers gained unauthorized access: The attackers sent fake emails to students containing suspicious links. These emails warned students that their LMS accounts would be suspended if they did not verify their information. When students clicked the links, they were redirected to fake login pages that looked like the university official website. Students entered their usernames and passwords, which were collected by the attackers and used to access their LMS accounts without permission.

3. Two potential cybersecurity risks: Personal Information Theft: Attackers may access students personal details and change their information, which can lead to identity theft and privacy violations.

Unauthorized Account Access: Attackers may misuse students LMS accounts to access confidential academic information, modify assignments, or view examination results without permission.

4. Two security measures: Multi-Factor Authentication (MFA): The university should introduce MFA so that students must provide an additional verification method, such as an authentication code, along with their passwords.

Cybersecurity Awareness Training: The university should educate students about phishing emails, suspicious links, and online security practices so they can recognize and report fraudulent messages.

5. Why students should avoid clicking suspicious links: Students should avoid clicking suspicious links because they may lead to fake websites designed to steal login credentials and personal information. Such links may also contain harmful software that can compromise their devices. Students should always verify the sender email address and access the university LMS through its official website instead of using unknown links.