Daffodil International University

Department of Business Administration
Faculty of Business & Entrepreneurship
Final Examination, Spring-2026
Course Code: 0613-223, Course Title: Cyber Security for Business
Batch: 66 Teacher: Jakia/TR/TM/TM
Time: 2 Hours Marks: 40

Answer ALL Questions

[The figures in the right margin indicate the full marks and corresponding course outcomes. All portions of each question must be answered sequentially.]

1.	Social media accounts are often targeted by hackers, making security very important for users. Different methods such as strong passwords, two-factor authentication, and privacy settings can help protect these accounts. In addition, organizations follow an Incident Handling and Response (IH&R) process to effectively manage and respond to security incidents.		
	A. **Analyze** different methods for securing social media accounts. B. **List** the steps in Incident Handling and Response - IH&R process.	**5+5**	**CLO2**
2	Modern organizations use different security tools to protect their systems and data from cyber threats. An Intrusion Detection System (IDS) helps monitor network activities and alerts users about suspicious behavior, while antivirus software protects devices from malware. Understanding how these tools work and how to use them properly is essential for maintaining cybersecurity.		
	A. Construct a basic model of how an Intrusion Detection System (IDS) works. **B. Identify** the steps required to use antivirus software effectively.	**5+5**	**CLO3**
3.	Encryption is widely used to protect sensitive information during data transmission. In symmetric encryption, the same key is used to convert plaintext into ciphertext and back again. However, despite using such techniques, organizations still face several challenges in ensuring effective data protection.		
	A. The plaintext **"ALICE"** is encrypted using a symmetric encryption method, and the ciphertext is **"JURLN"**. **Applying** the same encryption method, encrypt your own name. B. **Identify** the challenges in data protection.	**5+5**	**CLO3**

4.	Cybersecurity teams play a crucial role in protecting organizations from digital threats, but a lack of skilled professionals can create serious risks. Skills gaps may lead to delayed responses, poor threat detection, and increased vulnerability to attacks. To overcome these challenges, organizations can adopt emerging technologies to strengthen their cybersecurity systems.		
	A. Identify results of skills gaps in a cyber-security team and your approach to address the gaps. **B. Make use of** emerging technologies to enhance cyber security of your organization.	**5+5**	**CLO3**