Air University
(Mid-Term Examination: Fall 2025)
Department of Cyber Security

241525

Subject: Information Assurance
Course Code: CY103
Class: BSCYS- F24
Section: A,B

Total Marks: 50
Date: -11-2025
Duration: 2 Hours
FM Name: Dr. Balawal, Hina Batool

Instructions:

- This question paper has 3 questions and page count is 2
- Understanding of questions is part of examination.
- **Return the question paper along with answer sheet.**

Q. No	Questions	Marks	CLO
01	A mid-sized company has several security policies in place but no clear structure defining who is responsible for information security decisions. As a result, when a data breach occurred, confusion arose about reporting lines and responsibilities. The CEO now wants to establish a proper information security governance structure. *Explain how you would design such a governance framework to ensure that roles, responsibilities, and accountability are clearly defined. Describe how the framework would align information security objectives with business goals and how management could evaluate its effectiveness*	20	3
02	A software development company is expanding to serve clients in Europe, where data protection regulations, such as the GDPR, are mandatory. The management is unsure how to adjust its existing policies to comply with these new legal requirements. *Discuss how legal and regulatory compliance affects information security governance. Suggest how the organization should adapt its policies, procedures, and documentation to meet compliance obligations without disrupting normal operations.*	10	1
03	You work as a security consultant for a financial institution that provides online banking services to its customers. The institution has recently been targeted by a number of cyberattacks, resulting in a significant loss of customer data and financial loss. As the head of the security team, you have been tasked with developing a comprehensive risk management plan to	20	2

address these issues and prevent future attacks. In addition to the recent cyberattacks, the institution operates in a highly regulated industry with strict compliance requirements, and it relies heavily on its reputation for security and trustworthiness to attract and retain customers.

a) What is the process you would follow to identify and assess the risks associated with the institution's online banking services, taking into account its regulatory compliance requirements and reputation for security?

b) How would you determine the institution's risk appetite level, and what factors would you consider in setting this level? How would this risk appetite level impact your recommendations for risk mitigation strategies and tools?

**************** End of Examination Paper *********************