PAN AFRICAN CHRISTIAN UNIVERSITY
UNIVERSITY EXAMINATIONS 2025/2026

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF (CRIMINOLOGY)
BACHELOR OF ARTS IN COMMUNITY DEVELOPMENT STUDIES
BACHELOR OF ARTS IN CRIMINOLOGY AND SECURITY LEADERSHIP
DIPLOMA IN COMMUNITY DEVELOPMENT AND SOCIAL WORK
DIPLOMA IN CRIMINOLOGY

BCSL 312: SECURITY RISK ASSESSMENT AND MANAGEMENT
Date: 08/12/2025 **Time: 2 HOURS**

Instructions:
This paper consists of **Five Questions.**
Answer Question **one (1)** and any other **two** questions
Question 1 carries 20 Marks compulsory
Question 2-5 carry 20 Marks each

SECTION A: (COMPULSORY)

Q1. **Case Scenario:**
NovaTech Financial Services (NFS) is a mid-sized banking institution that handles sensitive client financial data, including account details, credit histories, and investment records. To improve efficiency and client accessibility, NFS recently launched an online banking platform and integrated mobile applications. A few weeks after launch, the cybersecurity team detected multiple unauthorized login attempts originating from foreign IP addresses. Further investigation revealed that several employees had reused weak passwords across both personal and corporate accounts, allowing attackers to exploit credential-stuffing techniques. The breach exposed partial client data and temporarily disrupted online services, raising customer concerns and prompting regulatory oversight. NFS must now perform a comprehensive risk assessment to identify vulnerabilities within its authentication systems, evaluate the effectiveness of existing controls, and develop a robust risk management plan to strengthen its cybersecurity posture, ensure compliance, and rebuild customer confidence.

a. Mention FOUR potential risks and vulnerabilities that can be identified in NFS's system and employee practices that contributed to the security breach. (4 Marks)
b. Describe the strategies that NFS can implement to reduce the likelihood of credential-based attacks and enhance system security. (6 Marks)
c. Explain THREE ways in which NFS can maintain ongoing security vigilance to ensure long-term data protection and compliance. (6 Marks)
d. Outline the immediate actions NFS should take following the breach to contain the incident, recover lost data, and restore customer trust. (4 marks)

SECTION B
(Answer Any Two Questions)

Q2.

a. Describe the FIVE principles of management in handling security incidents. (10 Marks)
b. "The ultimate goal of risk management in security is not only to reduce risks to acceptable levels but also to ensure organizational resilience, continuity, and preparedness in the face of uncertainties." Justify. (10 Marks)

Q3.

a. Outline any FOUR tools used by organizations to support risk management. (8 Marks)
b. As a security professional, explain any SIX roles of security professionals in the risk management cycle. (12 Marks)

Q4.

a. The history of security management reflects the human history within society. Discuss the historical evolution of security management. (10 Marks)
b. Evaluate the technological and physical development of security practices into modern-day security practices. (10 Marks)

Q5.

a. Today's risk landscape requires a unified, coordinated, disciplined, and consistent management solution. Explain FIVE key risk management action components that all organizations must keep in mind. (10 Marks)
b. Risk assessment is a vital aspect of security management. Assess any FIVE reasons for risk assessment in security management and practice. (10 Marks)