

# MANICALAND STATE UNIVERSITY

# **OF APPLIED SCIENCES**

## FACULTY OF SCIENCE AND TECHNOLOGY

### DEPARTMENT: COMPUTER SCIENCE AND INFORMATION SYSTEMS

MODULE: CYBER SECURITY AND PROFESSIOAL ETHICS

CODE: INSY414

SESSIONAL EXAMINATIONS JUNE 2024

**DURATION: 3 HOURS** 

EXAMINER: MS G. MUTIPFORO

### INSTRUCTIONS

- 1. Answer all questions in section A and any three (3) questions in section B.
- 2. Start a new question on a fresh page
- 3. Total marks 100

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#### **Question 1**

#### Case Study: The Ethical Dilemma of a Data Breach

prescribed in the Cyber law and Data Protection Act.

Sarah is a software engineer working for a reputable tech company, CloudTech, known for its cloud storage solutions. Recently, she discovered a critical security vulnerability in CloudTech's servers that could potentially expose user data, including sensitive financial information. Sarah is conflicted. Reporting the vulnerability could lead to a temporary service outage and potentially damage CloudTech's reputation, potentially impacting her job security. However, keeping quiet could result in a massive data breach, exposing millions of users' personal information and potentially leading to financial loss, identity theft, and reputational damage for both CloudTech and its users.

a)

i)	Enumerate Sarah's ethical obligations as a software engineer.	[3 Marks]	
ii)	ii) Outline the potential consequences of each of Sarah's options (reporting vs. st		
	silent).	[4 Marks]	
iii)	Highlight resources that are available to Sarah to help her make an ethically		
	responsible decision.	[4 Marks]	
iv)	Outline the steps Sarah should take to address this ethical dilem	ma. <b>[6 Marks]</b>	
v)	Provide advice that you would give Sarah in such a scenario.	[3 Marks]	
b) Outline	and explain any five functions of the Data Protection Authority	y of Zimbabwe as	

[10 Marks]

c) How effective will the Cyber Security Act of 2021 be in addressing the issue of cybercrime in Zimbabwe? [10 Marks]

SECTION B

**Question 2** 

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0)	Define the term Cyber Law and expound on the need of Cyber law in Zir	nhahwa		
a)	Define the term Cyber Law and expound on the need of Cyber law in Zimbabwe.			
	[8 Marks]			
b)	Compare and contrast security, privacy and control. [12 Marks]			
Question 3				
Explain the following terms as they are used in the Cyber law and Data Protection Act of				
Zimbabwe [CHAPTER 12:07]:				
i.	Cyber terrorism;	[4 Marks]		
ii.	Cyber laundering;	[4 Marks]		
iii.	Cyber bullying ;	[4 Marks]		
iv.	Cyber stalking; and	[4 Marks]		
v.	Phishing.	[4 Marks]		
Question 4				
	Discuss any five (5) teness of intellectual rights you are familiar with			
a)	Discuss any five (5) types of intellectual rights you are familiar with.			
		[20 Marks]		
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Questi				
a)	Discuss the impact of globalization on computer ethics.	[20 Marks]		
END OF EXAMINATION				