BINDURA UNIVERSITY OF SCIENCE EDUCATION
FACULTY OF COMMERCE

DEPARTMENT OF INTELLIGENCE & SECURITY

BACHELOR OF COMMERCE HONOURS DEGREE IN FINANCIAL INTELLIGENCE PART 4

FI409 CYBER TECHNOLOGY

DURATION: 3HOURS

JUN 2023

INSTRUCTIONS TO CANDIDATES

1. Answer any four questions
2. Each question carries 25 marks
3. Cell phones are not allowed into the examination room
4. Begin each fresh answer on a new page

QUESTION 1

   a) Clearly explain the following terms as applied in cyber technology

i.	Cyber security	(3)
ii.	Cryptography	(3).
iii.	CIA	(3)
iv.	Firewall	(3)
v.	Traceroute	(3)

   b) Write brief notes on the following threats and suggest best measures to counter each threat.

i.	MITM attack	(2)
ii.	Phishing	(2)
iii.	Malware	(2)
iv.	DDoS	(2)
v.	Drive by downloads	(2)

[Total marks 25]

QUESTION 2

   a) Identify and explain any three commonly used social media platforms at Tertiary institutions. (10)

b) Demonstrate how to properly handle Big Data from the identified sources to maintain data integrity.
   (15)

[Total marks 25]

QUESTION 3

   a) Distinguish the following types of networks

i)	Internet and Intranet	(5)
ii)	Extranet and LAN	(5)
iii)	WAN and VPN	(5)

   b) Describe the basic requirements to access the internet explaining the importance of each
   component (10)

[Total marks 25]

QUESTION 4

Discuss the benefits of conducting Cyber security audit and compliance checks at an organization

(25)

QUESTION 5

Examine any **five** physical access control measures to enforce at an organization of your choice so as to secure data and IT infrastructure. (25)

QUESTION 6

Analyse the types of security controls and the goals required by modern financial institutions to curb cybercrimes. (25)