



BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF COMMERCE

DEPARTMENT OF INTELLIGENCE & SECURITY DEPARTMENT

**BACHELOR OF COMMERCE HONOURS DEGREE IN FINANCIAL
INTELLIGENCE PART 4**

FI409 CYBER TECHNOLOGY

DURATION: 3HOURS

JUN 2025

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) Briefly explain the following terms as they apply to cyber technology

- i. data leakage (3)
- ii. port scanning (3)
- iii. network sniffing (3)
- iv. Exfiltration (3)
- v. Penetration Testing (3)

b) Differentiate between IDS and NDS. (10)

[Total marks 25]

Question 2

a) Highlight any **three** measures to prevent the brute force attack. (10)

b) With the aid of examples explain the following

- i) black hat hackers (5)
- ii) white hat hackers (5)
- iii) grey hat hackers (5)

[Total marks 25]

Question 3)

Discuss the importance of a Cyber security Plan and cyber security policy. (25)

Question 4)

Using an organization of your choice discuss the challenges, opportunities and pitfalls in the use of online social networks in conducting business (25)

Question 5)

Big data is vital to Business success. Discuss (25)

Question 6)

Discuss the issues and challenges of cyber security in organizations. (25)