



ZIMBABWE EZEKIEL GUTI UNIVERSITY

FACULTY OF HEALTH, SCIENCE AND TECHNOLOGY

DEPARTMENT OF DIGITAL TECHNOLOGY

EXAMINATION PAPER

COURSE CODE	:	CDT 407
COURSE TITLE	:	Information Systems Security
SPECIAL REQUIREMENTS	:	None
DURATION	:	3 Hours
LEVEL	:	4.1
DATE	:	2022

INSTRUCTIONS TO CANDIDATES:

1. Answer any 4 Questions from the whole paper.
2. The total Marks for the examination is 100.
3. The marks allocation for each question are indicated in square brackets []

Question 1

A. Define the following terms as used in computer security

- i. Authentication
- ii. Digital signature
- iii. Data integrity
- iv. Biometric identification [10 marks]

B. What is a threat and describe how a Security Administrator would estimate the likelihood of a threat to an organisation [15 marks]

Question 2

There are several types of DOS attacks, identify and explain any three DOS attacks and hence show how you can counter them. [25 marks]

Question 3

- a. Define a risk [1 Mark]
- b. Give 3 goals of an IT security in an organisation. Explain each of the goals [12 Marks]
- c. Give examples of Information Security Functions within an organisation [12 Marks]

Question 4

A. Explain what you understand by the following terms [5 Marks]

- i. Policies
- ii. Standards
- iii. Guidelines

B. Give examples of key elements within an ICT Policy [10 Marks]

C. What are the basic rules for shaping an ICT Policy [10 Marks]

Question 5

Explain the following terms [25 Marks]

- Phishing
- Hacking
- Denial of Service
- Spoofing
- Cyber Attack
- Firewall

End of Paper