



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

**Faculty of Computing and
Informatics**

School of Computing

**Department of Software
Engineering**

13 Jackson Kaujeua Street
Private Bag 13388
Windhoek
NAMIBIA

T: +264 61 207 2052
F: +264 61 207 9052
E: dse@nust.na
W: www.nust.na

DEPARTMENT OF SOFTWARE ENGINEERING

QUALIFICATION: BACHELOR OF COMPUTER SCIENCE (HONS SOFTWARE DEVELOPMENT)	
QUALIFICATION CODE: 08BCHS	LEVEL: 8
COURSE: SECURE SYSTEMS	COURSE CODE: SSS811S
DATE: JUNE 2024	SESSION: THEORY
DURATION: 3 HOURS	MARKS: 100

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER (S)	MR ARPIT JAIN
MODERATOR:	MR PALKESH KATARIA

THE QUESTION PAPER CONSISTS OF 2 PAGES
(Including this front page)

INSTRUCTIONS

1. Answer ALL the questions.
2. Write clearly and neatly.
3. In answering questions, be guided by the allocated marks.
4. Number your answers clearly following the numbering used in this question paper.

PERMISSIBLE MATERIALS

1. None

Question 1 [20]

- (a) What are Cyber Kill Chain stages? Explain the attack example for each stage of the Cyber kill Chain. [10]
- (b) Provide two examples of defence techniques you can implement at each of the following stages of a Cyber Kill Chain. [10]

Question 2 [20]

- (a) How do the threat actors carry out their attack? Explain the attack methods [10]
- (b) Explain the design for insider risk? [10]

Question 3 [20]

- (a) Explain CIA Triad in the context of reliability and security. [10]
- (b) While implementing the least privilege model, what are the best practices that need to be followed? [10]

Question 4 [20]

- (a) Explain the design principle for Recovery. [10]
- (b) What is the motivation for the attackers? [10]

Question 5 [20]

- (a) What is Trojan Horse? Explain the stages of Trojan Horse. [10]
- (b) What do you mean by controlling the blast radius? [10]