



DEPARTMENT OF SOFTWARE ENGINEERING

QUALIFICATION: BACHELOR OF COMPUTER SCIENCE (HONS SOFTWARE DEVELOPMENT)	
QUALIFICATION CODE: 08BCHS	LEVEL: 8
COURSE: SECURE SYSTEMS	COURSE CODE: SSS811S
DATE: JULY 2025	SESSION: THEORY
DURATION: 3 HOURS	MARKS: 100

SECOND OPPORTUNITY / SUPPLEMENTARY EXAMINATION QUESTION PAPER	
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MODERATOR:	MR VUYOLWETHU MDUNYELWA

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

- (a) What are the defence techniques you can implement with different stages of a Cyber Kill Chain? [10 Marks]
- (b) Explain CIA Triad in the context of reliability and security. [10 Marks]

Question 2

- (a) What is Threat modelling and Vulnerability discovery? [10 Marks]
- (b) Explain the design for insider risk? [10 Marks]

Question 3

- (a) How to classify access based on risk and examine best practices that enforce least privilege. [10 Marks]
- (b) What is the Policy Framework for Authentication and Authorisation Decisions? [10 Marks]

Question 4

- (a) How do you change your design while changing the landscape? [10 Marks]
- (b) What is the complication of arriving when the plan changes? [10 Marks]

Question 5

- (a) What are the techniques to deploy the response mechanism? [10 Marks]
- (b) What are the design principles for the system to be resilient under adverse or unexpected circumstances? [10 Marks]

----- END OF EXAMINATION -----