



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

**FACULTY OF COMPUTING AND INFORMATICS
DEPARTMENT OF CYBER SECURITY**

QUALIFICATION : BACHELOR OF COMPUTER SCIENCE HONOURS (DIGITAL FORENSICS)	
QUALIFICATION CODE: 08BHDF	LEVEL: 8
COURSE: DIGITAL FORENSICS MANAGEMENT	COURSE CODE: DFM811S
DATE: JULY 2025	PAPER: THEORY
DURATION: 3 HRS	MARKS: 100

SECOND OPPORTUNITY/SUPPLEMENTARY EXAMINATION QUESTION PAPER	
EXAMINER	MS. SEPISO CHIKURUWO MR. JULIAS SILAA
MODERATOR	PROF. AMELIA PHILLIPS

THIS PAPER CONSISTS OF 2 PAGES
(Excluding this front page)

INSTRUCTIONS

1. Answer ALL the questions on the answer scripts.
2. Write clearly and neatly.
3. Number the answers clearly.

PERMISSIBLE MATERIALS

1. Pen, Pencil & Eraser

Question 1

Digital forensics is the application of computer science and investigative procedures for a legal purpose involving the analysis of digital evidence after proper search authority, Chain of Custody, validation with mathematics, use of validated tools, repeatability, reporting, and possible expert presentation.

- a) Outline and discuss what is covered in the Investigations of digital devices.
(4 marks)
- b) Explain why the Chain of Custody is important and give examples of what should be included in the Chain of Custody form.
(6 marks)

Question 2

Three (3) types of situations are common in private-sector environments; abuse or misuse of digital assets-mail abuse and Internet abuse.

- a) Write down what will be needed to conduct an investigation involving internet abuse allegations.
(4 marks)
- b) Outline the recommended processing of an Internet abuse case.
(10 marks)

Question 3

- a) Discuss the relationship between E-discovery and digital forensics
(10 marks)
- b) List Seven (7) types of computer offenses covered by Computer Fraud and Abuse Act (CFAA)
(7 marks)

Question 4

- a) Forensics examiners have two (2) roles in testifying, using examples were possible, describe these roles.
(4 marks)
- b) Expert witnesses are expected to present unbiased, specialized, and technical evidence to a jury. However, experts, like the attorneys who hire them, have biases and other ethical failings.
List five (5) obvious common ethical errors to avoid.
(5 marks)
- c) One of the effects of violating court rules or laws is disqualification of an expert witness.
Discuss any four (4) factors that can disqualify an expert witness from testifying in court.
(4 marks)

- d) The International Society of Forensic Computer Examiners (ISFCE) Code of Ethics and Professional Responsibility supplies guidelines for its members on how they are expected to perform their duties as forensics examiners.

List and discuss the six (6) guidelines

(6 marks)

Question 5.

Digital forensics examiners write reports to communicate the results of the forensic examination of a computer, network system, or digital device.

- a) Discuss the guidelines for report writing

(5 marks)

- b) Forensics tools generate reports when performing analysis. List any four (4) report formats.

(4 marks)

Question 6.

Give an overview of the Electronic Discovery Reference Model (EDRM).

(18 marks)

Question 7

During investigations you will come across different anti-forensics' techniques.

List and discuss any two (2) anti-forensics methods and how they can hinder investigations.

(4 marks)

Question 8

Extraction in digital forensics is process of extracting the data from digital devices. There are two different types of extraction, physical and logical:

Describe the above-mentioned types of extraction and list subfunctions of extraction that are used in investigations

(9 marks)

*******END OF PAPER*******