



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS**

**DEPARTMENT OF COMPUTER SCIENCE AND SOFTWARE**

**ENGINEERING**

**UNIVERSITY EXAMINATION FOR THE DEGREE OF**

**BACHELOR SCIENCE IN COMPUTER SECURITY AND FORENSICS**

**4<sup>ND</sup> YEAR 1<sup>ST</sup> SEMESTER 2024/2025 ACADEMIC YEAR**

**MAIN CAMPUS**

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**COURSE CODE: IIT 1407**

**COURSE TITLE: CYBERCRIME INVESTIGATION**

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**INSTRUCTIONS:**

- 1. Answer Question 1 (Compulsory) and ANY other two questions**
  - 2. Candidates are advised not to write on the question paper**
  - 3. Candidates must hand in their answer booklets to the invigilator while in the examination room**
  - 4. No mobile devices (e.g. laptops, phones, e.t.c.) are allowed into the Examination Room**
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## QUESTION ONE

[30 MARKS]

- a) Using appropriate examples, explain the following terms as used in cybercrime investigation: (10 Marks)
- i) Expert Witness
  - ii) Authority of Seizure
  - iii) Chain of Custody
  - iv) E-evidence Admissibility
  - v) Unauthorized access
- b) Discuss what do you understand by the term “*digital evidence*” (2 marks)
- c) State THREE sources of digital evidence. (6 marks)
- d) Explain the term *network probing* (4 marks)
- e) Suggest TWO ways in which the *network scanning* can be used to counteract cybercrime. (6 marks)
- f) Define the term *cyber stalking* as applied to cybercrime. (2 marks)

## QUESTION TWO

[20 MARKS]

- a) Discuss the following attributes of evidence that cybercrime investigators must uphold for it to be admissible in a court of law. (10 Marks)
- i) Authentic
  - ii) Accurate
  - iii) Whole
  - iv) Acceptable
  - v) Admissible
- b) State TWO reasons why there is need for standard operating procedures during cybercrime investigations. (4 Marks)
- c) Discuss the rules that a Cybercrime investigator must uphold during investigations. (6 Marks)

## QUESTION THREE

[20 MARKS]

- a) Discuss any SIX examples of cybercrimes. (12 Marks)
- b) Extensively discuss the rationale for maintaining a chain of custody during the Cybercrime investigation process. (4 Marks)

- c) Cybercrime investigators perform general tests on the evidence after collection to determine authenticity and reliability of the evidence. Using relevant examples, discuss some of these tests. (4 Marks)

**QUESTION FOUR**

**[20 MARKS]**

- a) Discuss the rules that a cybercrime investigator must uphold during investigation. (10 Marks)
- b) Discuss any five examples of cybercrimes. (10 Marks)

**QUESTION FIVE**

**[20 MARKS]**

- a) Computer forensics entails the preservation, identification, extraction, interpretation, and documentation of computer evidence. Using relevant examples, discuss these processes. (10 Marks)
- b) Define the term cyber stalking as applied to cybercrime (2 marks)
- c) With the help of relevant examples, provide a detailed explanation why “cyber stalking” is considered a crime under the Kenyan legal system. (8 marks)

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