

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF
ARTS IN CRIMINOLOGY**

CRSS 426: COMPUTER SECURITY

STREAMS:

TIME: 2 HOURS

DAY/DATE: THURSDAY 7/12/2017

2.30 P.M – 4.30 P.M

INSTRUCTIONS:

- **QUESTION ONE IS COMPULSORY AND ANY OTHER TWO**

QUESTION ONE: 30 MARKS

- a) Define the term “assets” in relation to computer security. (2 marks)
- b) Explain the main security properties of a computing system. (6 marks)
- c) Describe social engineering in relation to computer security (4 marks)
- d) Explain some ways in which cyber crime/computer crime is being used in committing credit card fraud (5 marks)
- e) Describe the following terms:
 - i) Cyber-crime (2 marks)
 - ii). Computer fraud (2 marks)
 - iii). Online scam (2 marks)
 - iv). DoS (2 marks)
- f) What is computer security? (2 marks)
- g) What is your understanding of an *exploitable* vulnerability? (3 marks)

QUESTION TWO: 20 MARKS

- a) "Hackers do not discriminate; they are continually scanning networks for vulnerabilities without a specific target,". Justify this statement (8 marks)
- b) Describe How has ENCRYPTION TECHNOLOGY been used MINIMIZE HARMFUL ACTIONS ON INTERNET. (8 marks)
- c) What is cyberspace crime? Give examples (4 marks)

QUESTION THREE: 20 MARKS

- a) Discuss at least four categories of threats in relation to computer security in details with appropriate examples (8 marks)
- b) Explain measures and methods that are employed to counter cyberspace crimes across the globe. (6 marks)
- c) Why is Digital Crime Scene Preservation and Documentation phase very important in achieving successful digital crime investigation (6 marks)

QUESTION FOUR:20 MARKS

- a) Why do you think many cybercrime suspects go scot-free mostly in the developing countries especially Kenya, Uganda? What should be done in your opinion to enable them face justice and be charged for the offences? (8 marks)
- b) Describe the differences between cyber warfare and cyber terrorism (4 marks)
- c) Explain why acquisition or imaging of exhibits very crucial in computer crime investigation process (6 marks)
- d) What is an encryption key? (2marks)

QUESTION FIVE: 20 MARKS

- a) Discuss how one can keep computer systems safe from threats and attacks. (8 marks)
 - b) Describe some of the most common cyber-crimes in the world. (8 marks)
 - c) How does ethical responsibilities affect cyberspace crimes? (4 marks)
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