



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

UNIVERSITY EXAMINATION 2012/2013

**1ST YEAR 1ST SEMESTER EXAMINATION FOR THE DEGREE
OF MSC IN IT SECURITY AND AUDIT**

KISUMU LEARNING CENTRE

COURSE CODE: IIT 5115

**TITLE: INFORMATION TECHNOLOGY LAW, ETHICS AND SOCIETY
COURSE**

DATE: 18/4/2013

TIME: 9.00-12.00NOON

DURATION: 3 HOURS

INSTRUCTIONS

- 1. This paper contains FIVE (5) questions**
- 2. Answer question 1 (Compulsory) and ANY other 2 Questions**
- 3. Write all answers in the booklet provided**

1: a) State the difference between Law and Ethics (4 marks)

b) Briefly explain the role of culture as it applies to computer ethics (16 marks)

Use the scenario below to answer the two questions that follow;

2: Naomi and Lillian are both dedicated computer students. Each day they visited the lab, they would open new email account and send anonymous emails to their friends. Naomi one time designed a virus program that she ran on three computer labs. After two days the same virus infected all the computers in the college. When complaints were raised, Lillian admitted they were responsible and explained that their reason was to test the rate at which the virus can copy itself on other computers

- a) List two activities you consider unethical about Naomi and Lillian (6 points)
- b) Use any of the ethical theories to support the activities of the duo that you consider unethical. (7marks)
- c) Use any of the ethical theories to support the activities of the duo that you consider ethical (7 marks)

3) a) Distinguish between hacking and penetration testing (6marks)

b) Identify two hacking methods and in each case describe how it is carried out.

(8 marks)

c) Using an example, explain how utilitarian theory is applied to computer ethics.
(6 marks)

4) a) Explain the meaning of the term cloud computing (2 marks)

b) Describe two major ethical challenges that may arise as a result of using cloud computing in an organization and suggest ways of encountering the challenges (18 marks)

5 a) Distinguish between data integrity and data confidentiality (3 marks)

b) Provide a detailed explanation outlining the role played by data integrity from the legal as well as ethical framework (17 marks)