



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF INFORMATION AND INNOVATIVE SYSTEM
BACHOLER EDUCATION ARTS-SCHOOL BASED
SEPTEMBER /DECEMBER 2024
YEAR 4 SEMESTER 1
MAIN CAMPUS**

COURSE CODE: ITB 9403

COURSE TITLE: INTERNAL CONTROLS AND SECURITY ISSUES

EXAM VENUE: MAIN STREAM

TIME: 2HOURS

INSTRUCTIONS

- 1. Answer question ONE (compulsory) and any other Two questions.*
- 2. Candidates are advised not to write on the question paper*
- 3. Candidates must hand in their answer booklet to the invigilator while in the examination room*
- 4. No mobile devices (e.g. laptops, phones. etc.) are allowed into the Examination Room*
- 5. This paper consists of two printed pages*

QUESTION ONE (30 MARKS)

- Define the following terms:
 - Data (1 mark)
 - Information (2marks)
- Differentiate between Internal Control and Procedures (4marks)
- State three limitations of internal control (3marks)
- Differentiate between threat and risk (4marks)
- What are the basic Principles of Information Security (3marks)
- State any three sources of software security requirements (3marks)
- Explain the term information security (2marks)
- Give three data protection laws that must be observed when working with information system (4marks)
- Define Biometric Security (2marks)
 - State two attributes used in Biometric Security (2marks)

QUESTION TWO (20 MARKS)

- a. Define Computer Virus (2marks)
- b. Explain three types of computer virus (6marks)
- c. State three sources of computer virus (3marks)
- d. Explain three ways in computer viruses can be prevented in a computer system (6marks)
- e. Give three impacts of computer viruses (3marks)

QUESTION THREE (20 MARKS)

- a) Explain the term computer crime (2marks)
- b) Explain five examples of computer crime (10marks)
- c) Define the following terms
 - i. Data encryption (2marks)
 - ii. Firewalls (2marks)
- d) Explain two protecting against computer fraud (4marks)

QUESTION FOUR (20 MARKS)

- a. Explain five components of Internal Control Structure (10marks)
- b. Explain five ways in which company can protect its assets (10marks)

QUESTION FIVE (20 MARKS)

- a. State three applications of input controls (3marks)
- b. Define the term Information System Audit (2marks)
- c. Explain four major elements of Information Audit Control (8marks)
- d. State three examples of Security Requirements (3marks)
- e. Explain three ways of assessing security requirements (4marks)