



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY
UNIVERSITY EXAMINATION 2018/2019
FORTH YEAR FIRST SEMESTER EXAMINATION FOR BACHELOR OF
EDUCATION WITH IT
(SCHOOL BASED – MAIN CAMPUS)

COURSE CODE: SCS 436

COURSE TITLE: INTERNAL CONTROLS AND SECURITY ISSUES

DATE: 23/08/19

EXAMS SESSION: 9.00 – 11.00 AM

TIME: 2.00 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.**

QUESTION ONE (30 MARKS):

- a) Discuss the term Contingency Planning? **(4 marks)**
- b) Differentiate between Data and Information? **(2 marks)**
- c) Discuss any **five** essential characteristic of Information? **(10 marks)**
- d) Computer controls are frequently classified into two categories, discuss the two categories? **(4 marks)**
- e) List **five** common causes of data loss in computing ? **(5 marks)**
- f) Discuss any **five** classification/types of audit? **(5 mark)**

QUESTION TWO (20 MARKS)

- a) Briefly discuss the following terms in respect to computing? **(8 marks)**
 - i. Virus
 - ii. Malware
 - iii. Blackhat
 - iv. Whitehat
- b) List **five** common information system audit observations in organizations? **(5 marks)**
- c) Briefly discuss the role and scope of work for internal information system auditors? **(5 marks)**
- d) Discuss two techniques you can employ to prevent theft or tampering with data in a computing environment? **(2 marks)**

QUESTION THREE (20MARKS)

- a) Your computer can begin to run very slowly and constantly pop-up annoying messages that make it difficult to do anything productive, this is an indication that your computer is infected by virus. Discuss any **five** types of computer virus which commonly attack computers? **(10 marks)**
- b) Highlight **ten** actions you should take to prevent computer virus infection? **(10 marks)**

QUESTION FOUR (20 MARKS)

- a) Discuss the following types of data and information controls? **(6 marks)**
 - i. Input controls
 - ii. Processing controls
 - iii. Output controls
- b) List any **five** threats to information systems? **(5 marks)**
- c) Mention three conditions necessary for computer fraud to occur? **(3 marks)**
- d) Name and discuss the **three** emerging information system audit techniques? **(6 marks)**

QUESTION FIVE (20 MARKS)

Discuss **five** measures that should be employed to reduce potential fraud in organizations? **(20 marks)**