



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF BUSINESS

ADMINISTRATION AND BACHELOR OF EDUCATION ARTS , SCIENCE & SNE

4TH YEAR SEMESTER 1 2018/2019 ACADEMIC YEAR

MAIN ,KISUMU, KISII, NAMBALE CAMPUSES

COURSE CODE: SCS 436

COURSE TITLE: INTERNAL CONTROLS AND SECURITY

EXAM VENUE:MAIN CAMPUS

STREAM BBA

DATE:10/12/2018

EXAM SESSION: 12.00-2.00PM

TIME:

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**

QUESTION ONE (30 MARKS)

- a) Define the following terms. (5 marks)
- i. internal control
 - ii. Integrity
 - iii. Availability
 - iv. Confidentiality
 - v. Privacy
- b) Highlight its objectives of internal controls. (5 marks)
- c) Explain the following types of controls used in securing information systems. (6 marks)
- i. Detective controls
 - ii. Preventive controls
 - iii. Corrective controls
- d) Outline the steps that are used in audit process. (8 marks)
- e) State the management's goals and objectives in utilizing technology to support business processes. (6 marks)

QUESTION TWO (20 MARKS)

- a) What is Contingency Planning? (2 marks)
- b) Explain the three components of Contingency Planning (6 marks)
- c) Explain what is meant by the term incident damage assessment (2 marks).
- d) Explain the recovery process once the extent of the damage as a result of an incident has been determined (10 marks)

QUESTION THREE (20 MARKS)

- a) Discuss five types of security risks that a computerized business environment is exposed to. (5 marks)
- b) Discuss the objectives of information system audit. (5 marks)
- c) State and describe three types of organizations' important resources you will prioritize security on in any working environment. (4 marks)

- d) Define the following:
- i. Threat (1 marks)
 - ii. Risk (1 marks)
 - iii. Vulnerability (1 marks)
 - iv. Confidentiality (1 marks)
 - v. Integrity (1 marks)
 - vi. Availability (1 marks)

QUESTION FOUR (20 MARKS)

- a) What is risk assessment (2 marks)
- b) What are the major benefits to be gained by an organization on carrying out an internal controls. (6 marks)
- c) Differentiate between general controls and application controls. In your answer include at least three general controls and three application controls used in ensuring the security of information systems. (4 marks)
- a) Internal control consists of five interrelated components. Explain the components. (8 marks)

QUESTION FIVE (20 MARKS)

- a) Discuss the five elements of the Internal Control Environment using any organization as a reference point (10 marks)
- b) Using an example, explain the term Segregation of Duties (SOD) (2 marks)
- c) Explain the following aspects of security (8 marks)
- i. Physical security
 - ii. Intrusion detection
 - iii. Logical security
 - iv. Awareness training