MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A constituent college of Jomo Kenyatta university of agriculture and technology)

FACULTY OF ENGINEERING AND COMPUTING

HIGHER DIPLOMA IN COMPUTER STUDIES- HDIP10A

END OF SEMESTER EXAMINATION

ECT 3112   INFORMATION SECURITY AND AUDITING

QUESTION 1 (compulsory)

a) Define information security auditing
        [1marks]
b) Describe the significance of Risk Analysis to an IT auditor.
        [1mark]
c) Describe the term audit planning
        [1mark]
d) Briefly explain the functions of ISACA in IS auditing

        [3 Marks]

e) Discuss the term fraud and outline how an IS auditor can detect frauds within organizations.
                [4 Marks]
f) Briefly explain the roles an auditor would play in the various levels of systems development.   [6 Marks]

g) Explain the objectives of the COBIT framework.
        [4Marks]

QUESTION 2

a) Explain the concept of IT governance stating areas of great concern covered therein.

[6 Marks]

b) You have been appointed to head the audit of the Nairobi city council cemetery scandal. Assuming computer systems were used when committing the crime, outline an acceptable evidence gathering process you would adopt maintaining all the acceptable principles.

[4 Marks]

c) Describe the term audit planning and state the operations undertaken when planning an appropriate IS audit.

[4 Marks]

d) Define CAATS. [2marks]

e) Explain the four main functions of most CAATs software. [4 Marks]

QUESTION 3

a) What is information forensic [2 mark]

b) Discuss three situations which may require the use of computer forensics when performing IS audit.

[6 Marks]

c) There are basic steps to the computer forensics: state and describe every step in the computer forensic process

[5marks]

d) The auditor should select the most appropriate procedure for the audit objective.

Explain these procedures. [6marks]

e) Define IT governance
[1mark]

QUESTION 4

a) Describe the audit methodology [4marks]
b) State and explain risk and control issues in an organization
[6marks]
c) Describe the following security concepts in relation to information auditing [6marks]

i) Availability

ii)Confidentiality

iii)Integrity

d) Describe four of the main categories of electronic crimes. [4 Marks]

QUESTION 5

a) Describe three types of audit [6marks]
b) Discuss different mechanism of disaster recovery planning (DRP)
[6marks]
c) Define E-commerce and give FOUR advantages of E-commerce
[5marks]
d) State one and two legal and ethical issues respectively
[3marks]