THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

Faculty of Engineering & Technology

DEPARTMENT COMPUTER SCIENCE & INFORMATION TECHNOLOGY

HDIP10A

ECT 3112: INFORMATION SECURITY AND AUDITING

SPECIAL/SUPPLEMENTARY EXAMINATION
SERIES: FEBRUARY/MARCH 2012
TIME: 2 HOURS

Instructions to Candidates:
You should have the following for this examination
- *Answer Booklet*

This paper consist of **FIVE** questions in **TWO** sections **A & B**
Answer question **ONE (COMPULSORY)** and any other **TWO** questions
Maximum marks for each part of a question are as shown
This paper consists of **THREE** printed pages

Question one (30 Marks)

a) State **two** standards used in auditing   [2marks]
b) Give **two** functions of auditing   [2marks]
c) Define computer forensic   [2marks]
d) Why do you think it's important to obtain an understanding of the organization you are going to audit

                                                                                               [3marks]
e) Define key information security concepts in relation to information auditing   [6marks]
f) Discuss disaster recovery mechanisms   [6marks]
g) State the objectives of an audit plan   [2marks]
h) State the phases of an IT audit   [7marks]

SECTION B (Answer any two questions)

Question 2

a) There are many reasons to employ the techniques of computer forensics: state these reasons
                                                                                               [10marks]
b) Discuss the major concerns of IT governance   [6marks]

a) Describe the term audit planning and state the operations undertaken when planning an
   appropriate IS audit.   [4 Marks]

Question Three

a) Define audit risk   [1mark]

b) State and explain risk and control issues in an organization   [6marks]
c) Define computer fraud and describe how fraud can be detected in organization through auditing
                                                                                               [5marks]
d) Give the role of an auditor in the following phases in software development   [8 marks]
   i)   Requirements specification
   ii)   System analysis phase
   iii) System design
   iv)   System implementation

Question Four

a) Define audit management   [1mark]

b) Discuss **two** situations which may require the use of computer forensics when performing IS
   audit.   [4Marks]

c) Describe the following objectives of COBIT   [12marks]

   • Plan and Organize

   • Acquire and Implement

   • Deliver and Support

- Monitor and Evaluate

d) State **three** types of audit   [3marks]

Question Five (15 Marks)

a) Describe the audit process   [10marks]

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

c) State the steps of computer forensic process   [4marks]

d) Define computer crime and give examples   [2marks]