



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

SECTION A (COMPULSORY)

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]