



# TECHNICAL UNIVERSITY OF MOMBASA

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## INSTITUTE OF COMPUTING AND INFORMATICS

### DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

#### UNIVERSITY EXAMINATION FOR:

#### BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY

#### EIT4413: INFORMATION SYSTEMS AUDIT

#### SPECIAL/SUPPLEMENTARY EXAMINATION

**SERIES: SEPTEMBER 2018**

**TIME: 3 HOURS**

**DATE: Sep 2018**

#### Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **FIVE** questions. Attempt question ONE (Compulsory) and any other **TWO** questions.

**Do not write on the question paper.**

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#### Question ONE (30 MARKS)

- a. Define the following concepts as used in systems auditing
  - I. Subsystem [2marks]
  - II. Supra system [2marks]
  - III. Interface [2marks]
- b. List **FIVE** sections of IS security policy [5marks]
- c. Discuss the eight steps of risk management process [8marks]
- d. Explain the four categories of auditing tools [8marks]
- e. What is your understanding of the term ERP? [1marks]
- f. List two categories of IS auditing software [2marks]

## Question TWO

- a. What are the four-primary objective of business continuity planning [4mark]
- b. Give five reasons why organization undertake ERP [5marks]
- c. “Continuous process improvement is based on many small, evolutionary steps rather than revolutionary innovations”. Explain the five levels of software process maturity [10marks]
- d. Give meaning of the abbreviation COBIT [1mark]

## Question THREE

- a. Explain the five basic characteristics of an ERP [10marks]
- b. Differentiate between:
  - I. Short-term planning [2marks]
  - II. Long-term planning [2marks]
- c. Explain the three dimensions that COBIT framework addresses [6marks]

## Question FOUR

- a. Explain the four data backup techniques in IS [8marks]
- b. Differentiate among the following terms
  - i. Business engineering [2marks]
  - ii. Business management [2marks]
  - iii. Business modeling [2marks]
- c. Explain any three basic security measures that apply to all IS [6marks]

## Question FIVE

- a. List any four information systems professional auditing organizations [4marks]
- b. Explain the four techniques available in assessing and evaluating risks [8marks]
- c. By defining audit trails, list three ways in which they support security of IS [4marks]
- d. Differentiate between compliance testing and substantive testing [4marks]