



# TECHNICAL UNIVERSITY OF MOMBASA

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## INSTITUTE OF COMPUTING AND INFORMATICS

### DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

#### UNIVERSITY EXAMINATION FOR:

#### THE DEGREE OF BACHELOR OF SCIENCE IN INFORMATION

#### TECHNOLOGY

#### BIT 2119 AND EIT 4120: MANAGEMENT INFORMATION SYSTEMS

#### END OF SEMESTER EXAMINATION

**SERIES: DECEMBER 2016**

**TIME: 2 HOURS**

**DATE: 13 Dec 2016**

#### 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

- With the help of a relevant diagrams distinguish a general system from an Information system by describing their most important components and resources [11 Marks]
- Define an information system (2marks)
- State and explain five desirable qualities of information. (5marks)
- Explain the impact of Implementation of a Management Information Systems on an Organizations and the Business. (8MARKS)
- Identify five components of a data warehouse [5 marks]

## Question TWO

- a) With reasons explain why organizations are investing large amounts of money in acquiring the state of the art information systems to run their affairs. (10marks)
- b) Information systems and internet technology have made e-commerce, e-government and e-business possible. Briefly explain the above terms. (6 marks)
- c) Differentiate between the following terms as used in Management Information Systems. (4marks)

## Question THREE

- a) Information systems operate on a platform also known as information technology infrastructure. Identify and explain THREE component of the information technology infrastructure. (6 marks)
- b) Discuss why the university would need to secure its information systems. (5 marks)
- c) Identify and briefly explain FOUR activities expected of all information systems. (4 marks)
- d) "Technology with data mining capability can be a double edged sword". Discuss statement with a relevant example. (5 marks)

## Question FOUR

- a) Discuss FIVE disciplinary foundations of management information systems. (10 marks)
- b) Define the following terms in TWO different ways in each case as in the study of information systems. (4 marks)
- c) Differentiate between strategic level and strategic information systems. (2 Marks)
- d) With an aid of a simple diagram, explain the relationships among the different information systems. (4 marks)

## Question FIVE

- a) Briefly explain THREE categories of managers (3marks)
- b) Explain how computerized information systems help the different categories of managers identified in a above. (3marks)
- c) Define the following terms as used in management information systems. (5 marks)
- a. Networked enterprise
  - b. Computer based information systems.
  - c. Management information systems
  - d. Organization-
  - e. Artificial intelligence
- d) Define the concept of competitive advantage (2 marks)
- e) Discuss how the university can gain competitive advantage by the use of information systems (7 MARKS)