



# TECHNICAL UNIVERSITY OF MOMBASA

INSTITUTE OF COMPUTING AND INFORMATICS

DEPARTMENT OF BUSINESS ADMINISTRATION

**UNIVERSITY EXAMINATION FOR:**

**BACHELOR OF COMMERCE / BACHELOR OF BUSINESS**

**ADMINISTRATION**

**EIT 4103: FUNDAMENTAL OF COMPUTER SYSTEM**

**END OF SEMESTER EXAMINATION**

**SERIES: APRIL 2016**

**TIME: 2 HOURS**

**DATE:** Pick Date Select Month Pick Year

## **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.**

## **Question ONE**

- a) Show your understanding of the following terms as used in the computer (8 marks)
- i) Software
  - ii) Computer
  - iii) Extranet
  - iv) Internet
- b) "Computers are very important in an Organization". Justify this statement by giving four functions of a computer facility within an organization (4 marks)
- c) Computerizing business operations may require the users of the computers to be trained. State clearly four reasons for training employees on how to use computers. (4 marks)
- d) Highlight five reasons why computers system require secondary storage. (5 marks)
- e) By citing an example in each case, classify computers based on the type of data which they can manipulate or according to technology. (9 marks)

## **Question TWO**

- a) Describe **five** common security threats faced by an organization's computer – based Information system. (10 marks)
- b) Explain **five** techniques that accompany can employ in reducing the threats in (a) above. (10 marks)

### **Question THREE**

- a) By citing an example in each case, differentiate between the following terms as used in computer
- i) Primary memory and Auxiliary memory (4 marks)
  - ii) Utilities softwares and Operating system (4 marks)
  - iii) System softwares and Application softwares (4 marks)
- b) Highlight two advantages and two disadvantages of a Cache memory. (4 marks)
- c) Computers have various applications in the real life situation. Highlight four application areas in which computers are being used at our homes. (4 marks)

### **Question FOUR**

- a) Buying a computer from the market requires a careful consideration. Explain any three specifications that one should considered when sourcing for a computer. (6 marks)
- b) Highlight four sources of computer viruses. (4 marks)
- c) Using a well labeled diagram, identify the hardware components in a modern computer system and their roles in processing information. (10 marks)

### **Question FIVE**

- a) In a computer system both input devices and output devices are used as a means to carrying out computational processes. Define the term input devices and output devices; and state any two devices for each category (8 marks)
- b) Using a suitable example and the following methods, explain how a negative number can be represented in a computer system.
- i) 1's Complement Method (3 marks)
  - ii) 2's Complement Method (3 marks)
- c) Explain three functions of an Operating System in a Computer (6 marks)