



# TECHNICAL UNIVERSITY OF MOMBASA

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FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MEDICAL ENGINEERING

**UNIVERSITY EXAMINATION FOR:**

**BACHELOR OF SCIENCE IN MEDICAL ENGINEERING**

**EIT 4150: INTRODUCTION TO IT**

**END OF SEMESTER EXAMINATION**

**SERIES:** Select series 2016

**TIME:** 2 HOURS

**DATE:** Pick Date May 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**

- a) A computer is a system that comprises mainly hardware and software. It processes input data to get information as output. Define fully the following terms: (10 Marks)
- Operating systems
  - Hardware
  - Utility programs
  - Device drivers
  - System Unit
- b) As a person with knowledge about application software, and assuming that you have been called to advice on the same. Explain four factors that the business should consider so as to buy the most appropriate application packages. (8 Marks)
- c) An Operating System is a set of programs that controls functioning of computer hardware. Explain any four functions of an Operating System of a computer (8 marks)
- d) Explain **two** main uses of a UPS in a computer laboratory. (4 Marks)

## Question TWO

- a) Distinguish between warm booting and cold booting. (4 marks)
- b) What are the benefits of buying ready - software from internet? (4 Marks)
- c) How will you differentiate System Software from Application Software in order for the management to buy the right software (4 Marks)

## Question THREE

- a) Explain the major components of the Central Processing Unit (10 Marks)
- b) A Student has bought a computer for use at home. An integrated software package was supplied along with the computer. The integrated package had Word Processing, Database, Spreadsheets and Art modules.
- i) State the purpose of each module the student may use it for. (4 Marks)
  - ii) Give two advantages of an integrated package over each separate module. (4 Marks)
  - iii) Name two keys on the computer keyboard that the student may use to erase text. (2 Marks)

## Question FOUR

- a) Highlight two advantages that a firm realized from the use of Project Management Software. (4 Marks)
- b) For each of the first four computer generations, identify the major electronic component and any other one characteristic.

(16 Marks)

## Question FIVE

Computer can be classified according to Size and Technology. Describe each classification, highlighting the subcategories. (20 Marks)