



# THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

Faculty of Engineering & Technology

#### DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

# DIPLOMA IN INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY [DIMBT 11M]

**EIT 2230: INFORMATION TECHNOLOGY** 

END OF SEMESTER EXAMINATIONS

**SERIES:** DECEMBER 2011

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 1 [30 Marks]

- a) Explain the following terms:
  - (i) Hardware
  - (ii) Software
  - (iii) Formatting
  - (iv)ALU

(8 marks)

- b) State three examples of each of the following hardware
  - (i) Input devices
  - (ii) Output devices
  - (iii) Memory

(9 marks)

- c) Explain the difference between the following
  - (i) a workbook and a worksheet in Ms Excel
  - (ii) Bit and Byte

(8 marks)

- d) Perform the following conversions
  - (i)  $210_{10}$  to Binary
  - (ii) 1101001101<sub>2</sub> to Decimal

(5 marks)

#### **SECTION B (ANSWER ANY TWO QUESTIONS)**

#### Question 2 [20 Marks]

**a** ICT has increased the choice of career opportunities globally. Identify and briefly explains four ICT career opportunities in your country.

(8 marks)

**b** Define the term information technology.

(2 marks)

**c** State four advantages of computers

(4 marks)

**d** List the major elements of a computer system.

(6 marks)

### Question 3 [20 Marks]

- **a** Explain the meaning of the following terms.
  - i Form factor
  - ii Virtual memory

iii Firmware

(6 marks)

**b** Flash disks have become the storage media of choice today as opposed to floppy diskettes.

Describe 4 characteristics of the flash disk that make it to be preferred to the floppy diskette.

(4 marks)

c Operating Systems can be classified of the basis of user interface. Describe any TWO types

(6 marks)

d Explain the classification of computer software giving examples.(4marks)

#### Question 4 [20 Marks]

- **a** As a student was working on her computer, the mouse failed before she could complete her assignment. State the keyboard keys she would use to perform the following tasks:
  - i Place data from a clipboard to a document.
  - ii Save the current document
  - iii Terminate an application that is not responding.
  - iv Switch between running programs

(4 marks)

- **b** State the precautionary measures one should take before: connecting to the internet; allowing other people to use your computer; or share files with others. (4 marks)
- c Microsoft Office is a commercial office suite of inter-related desktop applications. Briefly explain the 3 main applications in this suite. (6 marks)
- **d** Distinguish between a file, a folder, and the root directory

(6 marks)

## Question 5 [20 Marks]

**a** Outline the history of computers, stating the major technological inventions of each generation.

(10 marks)

**b** Explain any three applications of the internet

(6 marks)

**c** When you want to buy a computer, explain two main factors you will consider.

(4 marks)