THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)
(A Centre of Excellence)

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN COMMUNITY HEALTH
DIPLOMA IN NUTRITIONAL HEALTH
DIPLOMA IN ENVIRONMENTAL SCIENCE
(DCH 12S/DCH12M/DNH12S/DES 12S)

EIT 2102: COMPUTER APPLICATIONS

END OF SEMESTER EXAMINATION
SERIES: DECEMBER 2012
TIME: 2 HOURS

Instructions to Candidates:
You should have the following for this examination
-   *Answer Booklet*

This paper consist of **FIVE** questions
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

Question One (Compulsory)

a) Define database. **(2 marks)**
b) List **FOUR** examples of database programs in the market today. **(2 marks)**
c) State the components of Database hierarchy in asceding order **(2 marks)**
d) List and explain the functional units of a computer **(10 marks)**
e) What are the elements of a computer? **(6 marks)**
f) List and explain the **FOUR** types of computers. **(8 marks)**

Question Two

a) Explain the **THREE** types of database models **(6 marks)**
b) What are database management software? **(2 marks)**
c) State **FIVE** features of spreadsheets that are useful in financial modeling. **(5 marks)**
d) Define the following terms as used in a worksheet. **(3 marks)**
    (i) Columns
    (ii) Rows
    (iii) Cells
e) Differentiate between relative and absolute cell reference as used in Ms-Excel. **(4 marks)**

Question Three

a) Define mail merging. **(2 marks)**
b) Give **TWO** advantages of mail merge over copy and pasting several times to mass mail a document. **(2 marks)**

c) What are the uses of a word application program? **(5 marks)**

d) State and explain the **THREE** types of relationships that can be used to link tables databases. **(6 marks)**
e) Explain how 'parents' and 'child' tables are related in relational databases. **(5 marks)**

Question Four

a) Explain the following terms as used in computer science. **(4 marks)**
    (i) Data
    (ii) Program
    (iii) Data processing
    (iv) Information

b) State any **THREE** functions of a computer. **(3 marks)**
c) Give the difference between lower-style and desktop system unit. **(2 marks)**
d) What are the limitations of the first generation computers? **(4 marks)**
e) What are the services offered by an operating system? **(7 marks)**

Question Five

a) Briefly explain the classification of computer according to historical development computer (generation) **(8 marks)**
b) State the difference between desktop computers and laptop computers. **(2 marks)**

c) Identify and explain **FIVE** areas where computers are used to process data.   **(10 marks)**