TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

ADVANCED CERTIFICATE IN INFORMATION TECHNOLOGY

EIT 1128: COMPUTER PROGRAMMING II

SUPPLEMENTARY/SPECIAL EXAMINATIONS
SERIES: FEBRUARY 2013
TIME: 2 HOURS

INSTRUCTIONS:

- You should have the following for this examination:
  Answer booklet
- This paper consists of **FIVE** questions.
- Answer question **ONE (Compulsory)** and any other **TWO** questions.

This paper consists of Four printed pages.

QUESTION 1

a) Explain the following terms:
   i) Visual programming.   **(4 marks)**
   ii) Event driven programming   **(4 marks)**

b) Briefly describe each of the following Integrated Development (IDE) features:
   i) Toolbox
   ii) Control
   iii) Form
   iv) Title bar   **(8 marks)**

c) Write a VB program to read Fahrenheit temperature and convert the reading to degrees centigrade. Given C = (F-32) 5/9.   **(9 marks)**

QUESTION 2

a) The flowchart calculate income tax. Write a VB program corresponding to the flowchart. (8 marks)

b) With examples explain the **THREE** control structures in Visual Basic Programming language.
                                                                                                    (8 marks)
c) Explain any **TWO** types of errors in computer programming.   **(4 marks)**

QUESTION 3

a) With examples explain the **THREE** control structures used by Visual Basic Programming language.

(14 marks)

b) Explain the term data security. **(2 marks)**

c) Explain the difference between compiler and interpreater. **(4 marks)**

QUESTION 4

a) Explain the uses of the following properties of a Data control:
  i) Database name
  ii) Record name
  iii) Field name
  iv) Data source **(8 marks)**

b) Describe how you can connect to an MS Access database file called "student.mdb" from a VB project. **(10 marks)**

c) Explain the term Object-Oriented programming. **(2 marks)**

QUESTION 5

a) Draw a flowchart to calculate the sum and average of twenty integer values. Use a loop. **(10 marks)**

b) Implement Q 3 (a) above using Visual Basic Programming language. **(10 marks)**