



TECHICAL UNIVERSITY OF MOMBASA
**Faculty of Engineering &
Technology**

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATIO TECHNOLOGY
DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY
(DICT 12EV)

EIT 2108/ECT 2107: EVENT DRIVEN PROGRAMMING

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: FEBRUARY 2013

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** 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 One (20 marks)

- a) Explain the following terms:
- i) Visual Programming
 - 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 $C = (F - 32) \frac{5}{9}$ **(6 marks)**
(8 marks)

SECTION B (Answer Any Two Questions)

Question Two (20 marks)

- a) The flowchart below calculates income tax. Write a VB program corresponding to the flowchart. **(8 marks)**

Figure 1

- 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 Three (20 marks)

- a) Draw a flowchart to calculate the sum and average of twenty integer values. Use a loop. **(10 marks)**
- b) Implement Q3 (a) above using Visual Basic Programming language. **(10 marks)**

Question Four (20 marks)

- a) Explain the uses of the following properties of a Data Control.
- i) Database name
 - ii) Record source
 - 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 Five (20 marks)

- a) With examples, explain the TWO control structures used by Visual Basic Programming language. **(10 marks)**
- b) Explain the term data security. **(2 marks)**
- c) Write a VB program that will accept the username and password from the user. If the user is “JOHN” and password is “9999” then the user is given access but if user name and password are incorrect the user is denied access. **(8 marks)**