



TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION TECHNOLOGY (DIT 12S)

EIT 2108: EVENT DRIVEN PROGRAMMING

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: OCTOBER 2013

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consists of **FIVE** questions. Attempt 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

Question One (Compulsory)

- 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) Text box
 - (ii) Label
 - (iii) Checkbox
 - (iv) Data Control
- (8 marks)**
- c) Write a VB program to read Fahrenheit temperate and convert the reading to degrees centigrade.
Given $C = (F - 32) \frac{5}{9}$
- (8 marks)**

Question Two

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

Figure 1

Question Three

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

Question Four

- 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 “Nwind.mdb” from a VB project. (10 marks)
- c) Explain the term object-oriented programming (2 marks)

Question Five

- a) With examples, explain the **THREE** 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 “TUM” and password is “4545” then the user is given access but if username and password are incorrect the user is denied access. (8 marks)