



TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR:
BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY
(BTIT M13)
EIT 4203: WINDOWS DESKTOP APPLICATION PROGRAMMING

END OF SEMESTER EXAMINATION

SERIES: AUGUST 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) Define the following visual basic terms:

- (i) Object (2 marks)
- (ii) Form (2 marks)
- (iii) Event (2 marks)

b) Briefly discuss the importance of the following in event driven programming:

- (i) GUI
- (ii) IDE (8 marks)

c) (i) List **THREE** properties of a label control that can be set in the properties window. (3 marks)
(ii) How does a label object differ from a textbox object (2 marks)

d) Write a logical expression that would test whether x is greater than 21 or less than -3 (4 marks)

e) (i) Describe how the Input Box function differ from the Message Box function (4 marks)

(ii) Give example in each case

(2 marks)

f) Explain what Dim keyword does

(1 mark)**Question Two**

a) Consider the following program statement

Dim m as Integer

For m = 1 To 5

If m <>3 then

Print m

End if

Next m

(i) Write the output generated by the program fragment

(2 marks)

(ii) Rewrite the statements using a DO while...loop

(5 marks)

b) You have been assigned the duty by Kikiini Secondary School to develop a program to calculate the grade based on average marks of five subjects. The average mark is displayed by use of a label control. The grading system is shown below:

Average mark	Grade
80 – 100	A
60 – 79	B
40 – 59	C
0 – 39	F

(i) Sketch the GUI

(3 marks)

(ii) Use the click event of a command button to write code for your program.

(10 marks)**Question Three**

a) Explain how you would come up with the following menu:

File Window

New Cascade

Open Tile

Exit

NB: There is a separator bar between open and exit.

(10 marks)

b) Differentiate between the following:

(i) Name and caption

(4 marks)

(ii) Implicit and explicit declaration

(4 marks)

c) Explain the significance of option explicit as used in visual basic

(2 marks)**Question Four**

a) Explain the functions of each of the following windows found in Visual Basic.

(i) Project Explorer

(ii) Immediate Window

(iii) Properties Window

(iv) Form Layout Window

(8 marks)

b) Illustrate the steps followed to do each of the following:

- (i) Set the start-up form in an application
- (ii) Add a form to a project
- (iii) Set a textbox control on focus
- (iv) Add an active X control to a project

(12 marks)

Question Five

a) Write at most one line of code to do each of the following:

(i) Change the colour of form 1 to red

(3 marks)

(ii) Maximize a form called frmstudents

(3 marks)

(iii) Hide a command button called btncalualte

(3 marks)

(iv) Disable a textbox called txtdate text

(3 marks)

b) Write a procedure that calculates the area and circumference of a circle and prints the results in a label control. Use appropriate control names.

(8 marks)