UGANDA MARTYR'S UNIVERSITY FACULTY OF SCIENCE

DEPARTMENT OF INFORMATION SYSTEM

EXAMINATIONS 2011/2013

COURSE: DIPLOMA CS & BSC IT(III)
COURSE UNIT: PROGRAMING METHOD III VB

TIME: 3 HOURS (9:00AM - 12:00 NOON)

TIME: 21ST Friday December 2012

EXAMINATION INSTRUCTIONS

- 1. Attempt any five(5) questions from sections.
 - 2. Do not open this booklet until told to do so
 - 3. All rough work should be done in your answer booklet.

Question 1

- (a) A typical Microsoft Visual Basic development environment has the following.
 - (i) Solution explorer
 - (ii) Properties window

(iii) Tool box

You are required to describe briefly each of the above.

[2 marks @]

(b) Explain what you understand by the following terms.

[2 marks@]

- (i) Variable
- (ii) Const Statement
- (iii) Empty string
- (iv) Arguments
- (c) Differentiate between promotion and demotion of variable

[4 marks]

(d) Of the two (promotion and demotion of variable) is dangerous. Explain why
[2 marks]

Question 2:

(a) How does a control differ from an event in regards to VB.NET.

[4 marks]

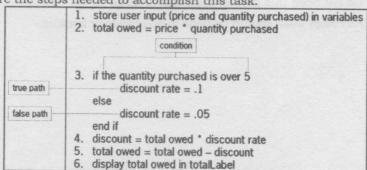
(b) What is flow chart?

Plow [3 marks]

- (c) With help of diagram describe any three symbols of a follow chart. [6 marks]
- (d) What is the function of lines in a flow chart?

[2 marks]

(e) Below are the steps needed to accomplish this task.



You are required to draw the corresponding flow chat. [5 marks]

Question 3 (a) Explain the meaning the following in relation to Visual Basic .Net. [2 marks] Access key (ii) Default button (iii) Dialog Box (iv) Focus (v) Control (b) What is a Selection Structure? [2 marks] (c) State and describe any two selection structures covered in class. [4 marks] (d) Describe both the True and False path. [4 marks]

Question4:

When describing the User Interface, there are standards to follow.

(a)	List five Windows GUI guidelines for designing a User Interface.	[4 marks]	
(b)	List three Container Controls and state their purpose.	[6 marks]	
(c)	Describe four benefits for following the Windows standards for menus.		
	positioning of buttons, colors, etc.	[4 marks]	
(d)	List three guidelines used when arranging Controls on a Form.	[3 marks]	
(e)(a)	List the steps of How to Plan an Application in VB.NET	[3 marks]	

Question 5:

A variable is a computer memory locations used to temporarily store data while an application is running. Contents can change during run time.

(a) Describe any four rules for naming variables in VB.NET. [4 marks]
(b) List and describe three components of a Declaration statement. [3 marks]
(c) Using the following diagrams below, describe what the code snippet can accomplish

[6 marks]

- (i) Dim hours As Integer Dim payRate As Double
- (ii) Dim isDataOk As Boolean = True
- (iii) Dim message As String = "Good Morning"
- (d) In using the TryParse method, the Visual Basic environment ensure that; there is a Part of every numeric data type's class, used to convert a string to that numeric data type. Describe the two arguments of the Basic syntax of TryParse method.

 [3 marks]

(e) Describe what the following code does.

[4 marks]

Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button2.Click

MessageBox.Show("WELCOME", "TEST MESSAGE")

End Sub

Question 6

(a) Most applications in the real world today need to access a database. During the semester we connected a simple application to Microsoft Access Database.

	(i)	Describe the meaning of a DataSet.	[2 marks]
	(ii)	State the purpose of a DataGridView control.	[2 marks]
	(iii)	State the four functions of a BindingNavigator control.	[4 marks]
	(iv)	List five objects that are placed in the component tray wh	en Visual
		Studio.Net is used to connect a form to database.	[5marks]
(b)) Wha	t is the difference between TryParse and Const?	[4 marks]
(c	Desc	cribe what the following code does.	[3 marks]