



### THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

# Faculty of Engineering and Technology

# DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION TECHNOLOGY (DIT 10M)

ECS 2206: EVENT DRIVEN PROGRAMMING

END OF SEMESTER EXAMINATIONS

**SERIES:** AUGUST/SEPTEMBER 2011

TIME: 2 HOURS

#### **Instructions to Candidates:**

Answers MUST be written clearly within the answer booklets provided with the exam paper Answer question **ONE** and any other **TWO** questions from the list of questions below Unless otherwise stated, all codes and or code stubs **MUST** adhere to Visual Basic Programming language syntax and semantics

This paper consists of **THREE** printed pages

#### **SECTION A (30 marks)**

# Question 1 (Compulsory)

a) Explain the term even as applied to programming

b) Give FOUR examples of event in respect to Visual Basic Programming (3 marks)
c) What is the difference between a PictureBox and Image controls (2 marks)
d) Write a function procedure to add two numbers and return their sum to the calling module (4 marks)
e) Differentiate between Standard module, form module and class module (3 marks)
f) Explain any FOUR components of Visual Basic's Integrated Development Environment

t) Explain any **FOUR** components of Visual Basic's Integrated Development Environment (IDE) (8 marks)

g) Write a statement to create a dynamic array in Visual Basic 6.0 (2 marks)

h) Explain **THREE** categories of errors in Visual Basic (6 marks)

i) Using examples differentiate between *implicit* and *explicit* declarations (2 marks)

# **SECTION A (40 marks)**

# Question 2 (20 marks)

- a) Name and briefly describe **TWO** logical data operators of Visual Basic(4 marks)
- b) What is the difference between Integer Division (I) and Mod data operators (2 marks)
- c) Outline **FOUR** variable naming conventions used in Visual Basic (4 marks)
- d) What is the use of the statement *Option Explicit*? Where is it declared (3 marks)
- e) Differentiate local and public variables (2 marks)
- f) What is the difference between a sub and function procedures (2 marks)
- g) Name **SIX** numeric data types of Visual Basic specify the amount of space allocated to each of them (3 marks)

# Question 3 (20 marks)

- a) Explain the following properties of controls
  - (i) Visible
  - (ii) Caption
  - (iii) Text (3 marks)

(3 marks)

D)	What are static variables? What are they used for? How are they declared	(3 marks)
c)	Define the general syntax of <b>IfThenElse</b> selection structure	(2 marks)
d)	ne and briefly explain <b>FIVE</b> categories of procedures used in Visual Basic	
e)	Stat the difference between a static and dynamic arrays	(10 marks) (2 marks)
Question 4 (20 marks)		
a)	Outline <b>TWO</b> benefits of using procedures in programming	(2 marks)
b)	Explain the differences between Do whileLoop and DoLoop While	(2 marks)
c)	Name and briefly explain two types of arrays used in Visual Basic programmi	_
d)	marks) Explain the difference between a function and a procedure	(4 (2 marks)
e)	State any <b>FOUR</b> predefined constants in Visual Basic	(2 marks)
f)	Giving an example, name the function you would use to cast a variable to Variant and Decimal types in Visual Basic 6.0	o Error, String, (4 marks)
g)	Explain the term control. List <b>THREE</b> categories of controls used in V	isual Basic 6.0 (4
marks) Question 5 (20 marks)		
a)	Explain the use of <b>SelLength, SelStart</b> and <b>SelText</b> properties of the <b>T</b>	<b>TextBox</b> control (3
b)	marks) List and explain any <b>THREE</b> date functions used in Visual Basic 6.0	(3 marks)
c)	State the difference between <b>CheckBox</b> and <b>OptionButto</b> n controls	(2 marks)
d)	Write Visual Basic code to remove a second item from a list control	(3 marks)
e)	Highlight <b>THREE</b> advantages of Control Array in Visual Basic (3 mar	ks)
f)	Differentiate between <b>DirListBox</b> , <b>DriveListBox</b> and <b>FileListBox</b> control	(3 marks)
g)	Using a piece of code, differentiate between Load and Show methods of a formarks)	m object (3