

TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering &

Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR: BACHELOR OF TECHNOLOGY IN INFORMATION COMMMUNICAITON TECHNOLOGY (BTICT)

EIT 4203: WINDOWS DESKTOP APPLICATION PROGRAMMING

END OF SEMESTER EXAMINATION SERIES: DECEMBER 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 (COMPULSORY) 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) Describe the following string functions giving the syntax in each case:

(i)	Str Reverse	(2 marks)
(ii)	InstrRev	(2 marks)
(iii)	MID \$	(2 marks)
(iv)	RTrim \$	(2 marks)
(v)	Len	(2 marks)
b) Distinguish between global and procedural variables. (6 ma		
c) Defin	e the term, Integrated Development Environment	(2 marks)

d) Describe any THREE items found in the Visual Basic Integrated Development Ie) Using an example, illustrate branching and looping statements	Environment. (6 marks) (6 marks)		
Question Two			
a) Describe the "ReDim" statement	(2 marks)		
b) Distinguish between passing arguments by reference and passing arguments by	value (6 marks)		
c) Describe TWO types of procedures in Visual Basic using example where necess	```		
d) Outline the steps used to create menus in an MDI form	(6 marks)		

Question Three

a) Dim Number 1, number 2, number 3, divisor as integer. Dim total, average as variant Private sub form click () Number 1 = val (Text1.Text) Number 2 = val(Text2.Text) Number 3 = val(Text3.Text) divisor =val(Text4.Text) total = number 1 + number 2 + number 3 average = total/divisor Label 1. caption = total Label 2.caption = average End sub

Using the above code do the following:

- (i) Introduce error handling to end the program gracefully in the event that the user enters zero as the divisor. (6 marks) (ii) Introduce validations to ensure that the user enters a value in the text boxes, Text 1, Text 2,
- Text 3 (6 marks) (4 marks)
- **b)** Distinguish between early and late binding
- **c)** Define the following terms:
 - (i) DQL
 - (ii) DML

Question Four

- a) Using an example where necessary, describe the use of any FOUR mathematical functions (4 marks) b) Give the format for the following: (i) If...Then...Else statement (4 marks)
 - (ii) Select case....End select control structure (6 marks)
- c) Outline the steps that you would use to connect a data control to a database and display the contents of a field. (6 marks)

Question Five

(4 marks)

- a) Define the following terms:(i) Command Builder

	(ii) Data Adapter(iii) Data Reader	(6 marks)
b)	Distinguish between sequential and random file access	(6 marks)
c)	Explain why ADO is preferred to data control when accessing databases	(4 marks)
d)	Distinguish between Object Oriented and Procedural Programming	(4 marks)