



# THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

**A. M. E. C. E. A**

P.O. Box 62157  
00200 Nairobi - KENYA  
Telephone: 891601-6  
Fax: 254-20-891084  
E-mail: academics@cuea.edu

**MAIN EXAMINATION**

**MAY – JULY 2018 TRIMESTER**

**FACULTY OF SCIENCE**

**DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE**

**REGULAR EXAMINATION**

**LIS 317: VISUAL BASIC PROGRAMMING**

**Date: JULY 2018**

**Duration: 2 Hours**

**INSTRUCTIONS: Answer Question ONE and ANY OTHER TWO Questions**

- Q1. a) A class was discussing methods for building user interfaces. Identify any **THREE** controls use in visual programming. **(6 Marks)**
- b) Using for loop statement, write a code a program that counts from 1 to 100. **(5 marks)**
- c) Outline any **THREE** emerging trends in visual programming. **(3 Marks)**
- d) Discuss combo box control and use any example to demonstrate how it add a new item using add method.
- e) Describe any **THREE** types of errors encountered in VB 2010 programming. **(4 marks)**
- f) Define the following terms as used in visual basic giving declaration and examples
- i) Project
  - ii) Constant
  - iii) Expressions **(6 marks)**
- g) Explain the term operator and list down any **FOUR** type showing their examples.
- h) Highlight the importance of simulation and modelling in programming **(5 marks)**

- Q2. a) Discuss any three visual objects in Visual basic programming. **(6 Marks)**
- b) Demonstrating how it is declared, describe the term Variables as used in Visual programming. **(3 Marks)**
- c) Distinguish between the following terms as used in Visual programming.
- i) increment and decrement operators **(2 Marks)**
  - ii) program compilation and execution **(2 Marks)**
- d) Describing how it is used discuss the “Msgbox” function as used in visual basics. **(3 Marks)**
- e) Write a code of updating a new record in visual basics. **(4 Marks)**
- Q3. a) Define inheritance? Discuss how inheritance is used in visual basic: **(7 marks)**
- b) Write an application that defines a class shape. It takes the following as inputs: length, area, and perimeter. **(8marks)**
- c) Explain **THREE** importance of polymorphism in visual programming.
- Q4. a) Mr Sitoti is a new database administrator in kentang systems: he was asked to produce a database code that will give the following table using visual basic programming and as a results come up with an interface.

ID	ITEM_NAME	ITEM_DESC	ITEM_PRICE	CUR_QTY
1	Apples	Beautiful,ripe apple	0.25	1000
2	Bunches of grapes	Seedless grapes	2.99	500
3	Bottled water(6-pack)	500ml spring water	2.29	250

- (9marks)**
- b) Show the code that will allow successful connectivity to MySQL database. **(2marks)**
- c) Write a code that will change the value of apple price from 0.25 to 3 from each apple. **(3marks)**

- d) Bahati has been using visual programming to design graphical interface her project work. Identify **THREE** annoying problems she might have faced with visual basic tools. **(6 Marks)**
- Q5. a) Stacy and Brenda were visual programming concepts.Discuuss **FOUR** reasons why Visual programming is not a replacement of C language. **(4 Marks)**
- b) Discuss **FOUR** common properties available in visual windows and their roles in designing graphical user interface. **(8 Marks)**
- c) State and explain **THREE** common data types used in visual designing. Use an example to justify your answer. **(6 Marks)**
- d) Highlight **FOUR** areas where visual programming can be applied in real time environment. **(4 Marks)**

**\*END\***