KISII UNIVERSITY

UNIVERSITY EXAMINATIONS

**SECOND YEAR EXAMINATION FOR THE AWARD OF THE
DIPLOMA IN INFORMATION TECHNOLOGY
FIRST SEMESTER, 2023/2024
(AUGUST-DECEMBER, 2023)**

DIT 0200: VISUAL BASIC PROGRAMMING

STREAM: Y2 S1   **TIME: 2 HOURS**

DAY: WEDNESDAY, 12.00 -2:00 PM   **DATE: 29/11/2023**

INSTRUCTIONS
1. *Do not write anything on this question paper.*
2. *Answer Question ONE [Compulsory] and any other TWO Questions.*

QUESTION ONE (30 Marks)

a)   Explain the typical uses of the following control tools as used in visual basic

(4 marks)

   i.   Label

   ii.   Textbox

   iii.   Button

   iv.   Combo Box

   v.   List Box

b)   Write a visual basic that calculates the area of a triangle and displays the result to the console.   [5 marks]

c)   Explain any visual basic IDE elements.   [6 marks]

d) State four data types used in event driven programming. [4 marks]

e) Write a program in visual basic that display even numbers between 20 and 40 on a form. Use a do while statement. Attach code on a command button. [4 marks]

f) Explain the different error-handling styles used in visual basic. [6 marks]

QUESTION TWO (20 Marks)

a) Explain the basic steps in creating a visual basic project. [10 marks]
b) List down standard controls found in visual basic toolbox. [10 marks]

QUESTION THREE (20 Marks)

a) Explain five rules that should be observed in naming variables in visual basic. [6 marks]
b) i. Explain two reasons for writing a comment in visual basic. [4 marks]

ii. Explain briefly four access modifiers found in visual basic. [4 marks]

QUESTION FOUR (20 Marks)

a) What is an array? Discuss different types of arrays. [8 marks]

b) Define the following IDE components of a visual studio. [4 marks]
   i) Form Designer
   ii) Solution Explorer
   iii) Properties Window
   iv) Toolbox Window
c) State three types of errors and give and example of each. [8 marks]

QUESTION FIVE (20 Marks)

a) Write a program that will return the sum of all odd numbers between 1 and 100. [4 marks]

b) Using any technique, outline steps that can be followed when connecting a project to a database. [10 marks]
c) Explain three operators used in visual basic program. (6 marks)