KISII UNIVERSITY

UNIVERSITY EXAMINATIONS
FIRST YEAR EXAMINATION FOR THE AWARD OF CERTIFICATE IN INFORMATION TECHNOLOGY
FIRST SEMESTER, 2023/2024
(AUGUST-DECEMBER, 2023)
CIT 01012: INTRODUCTION TO PROGRAMMING IN VISUAL BASIC (VB)

STREAM: Y1 S1   **TIME: 2 HOURS**

DAY: MONDAY, 12.00 – 2.00 PM   **DATE: 27.11.2023**

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

QUESTION ONE

a) Outline a circumstance under which each of the following controls may used
(10 marks)

I. Picture box
II. Textbox
III. Label
IV. Button
V. Grid

b) Explain the function of each of the following in a Visual Basic Integrated Development Environment.

(i)   Menu bar;

(ii)   Object browser

(iii)   Form layout window.   (10marks)

c) Distinguish between caption and frame properties as used in a Visual Basic
(4marks)

d) With the aid of an example in each case, distinguish between a method and an event as used in a Visual Basic Program.   (6 marks)

QUESTION TWO

a) i) Write a program in Visual Basic with a label und textbox named and Text 1 respectively that uses procedure performs the following sequence of events when the command button is clicked. Use switch statements.

(6 marks)

ii) Distinguish between on error go to 0 and On error go to 1 statements in a Visual Basic program- (4 marks)

b) i)Write a program in Visual Basic that would display the following pattern on a picture box (10marks)

```
1  2  3  4  5  6
1  2  3  4  5
1  2  3  4
```

ii) Outline six events of an ADO Data control as used in Visual Basic Programming. (6marks)

QUESTION THREE

a) Explain the reasons for applying each of the following in array visual basic program (6 marks)
   i)   Control array
   ii) Array bound
   iii) Redim statement

b) Describe four methods of list box as used in visual basic program

(8 marks)

c) Distinguish between caption and name properties as used in visual basic (6 marks)

QUESTION FOUR

a) Distinguish between n a list box and a combo box as used in Visual Basic.

(4mks)

b) Write an algorithm to implement each of the following in a stack data structures (6 marks)
   i) Cheek if it is full;

   ii) Add an element.

   c) Outline circumstance in which of the following controls may be used in visual basic program (6 marks)
   i)   Timer
   ii) Checkbox
   iv) Message box
   d)state four types of sorting techniques (4marks)

QUESTION FIVE

Describe visual basic tool bars (20marks)