



KENYATTA UNIVERSITY
DIGITAL SCHOOL OF VIRTUAL AND OPEN LEARNING (DSVOL)
EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
INFORMATION TECHNOLOGY
SIT 104 – VISUAL BASIC PROGRAMMING

2ND TRIMESTER 2023/2024

TIME: 2 HOURS

INSTRUCTIONS:

This paper consists of **TWO** sections (A and B). Answer **SECTION A (COMPULSORY)** and **ANY TWO QUESTIONS** from **SECTION B**.

Section A- Compulsory (30 marks)

QUESTION 1(30MARKS)

- a) Describe the three most common properties of forms in Visual Basic (6Marks)
- b) Describe the menu editor as used in Visual basic programming (2Marks)
- c) Distinguish between a method and a function as use in visual basic (4Marks)
- d) Describe the 3 steps used when creating an application using VB. (6 Marks)
- e) In Visual Basic.net, there are 2 types of constants. Describe them using examples (4 Marks)
- f) Describe the quickest way to reset the VB IDE layout. (4 Marks)
- g) Differentiate Between A Text Box And A Masked Text Box (4 Marks)

QUESTION 2(20MARKS)

- a) Describe the VB's Intellisense feature and explain how its accessed (5 Marks)
- b) Discuss the printing PrintAction options when printing a form using VB.net. (6 Marks)
- c) Outline three disadvantages of using visual programming language (3 Marks)
- d) Define the following terms and clearly show how they are declared and initialized:
 - i) Variable
 - ii) Constant

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iii) Array

(6 Marks)

QUESTION 3(20MARKS)

- a) List any 3 objects and 3 events used in VB and explain their functions. (6 Marks)
- b) List and briefly describe 4 flow control constructs supported by Visual Basic. (4 Marks)
- c) Briefly explain the difference(s) between design-time and run-time modes in Visual Basic. (4 Marks)
- d) Explain briefly the following events stating one possible use for each.
 - i) Form Load
 - ii) KeyPress
 - iii) Query Unload(6 Marks)

QUESTION 4(20MARKS)

- (a) An object in Visual Basic is said to possess three aspects namely: properties, methods and events. Using a Balloon example, discuss the three aspects. (6 Marks)
- (b) Write one line of code to perform the following tasks:-
 - (i) Select an optionButton called optMale
 - (ii) Display the message "This is Visual Basic" in a label called lblTest
 - (iii) Displaying the message "My Name is John" in a Message Box
 - (iv) Adding an Item "Programing" to a Combo cboTest
 - (v) Setting focus in a text box txtCourses(10 Marks)
- (c) Discuss any TWO debugging facilities used in Visual Basic, and state how they are used. (4 Marks)

QUESTION 5 (20MARKS)

- a) Write a program that uses a function to calculate the sum of two numbers and display their sum using a label control (8 Marks)
- b) Briefly describe any three advantages of using sub procedures or functions in a program. (6 Marks)
- c) Describe three different ways of declaring variables in VB (6 Marks)