



(Knowledge for Development)

KIBABII UNIVERSITY

(KIBU)

**UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR**

**SUPPLEMENTARY/SPECIAL EXAMINATIONS
YEAR ONE SEMESTER TWO EXAMINATIONS**

**FOR DIPLOMA IN
INFORMATION TECHNOLOGY**

COURSE CODE : DIT 052

**COURSE TITLE : RAPID APPLICATION
PROGRAMMING**

DATE: 11/10/2018

TIME: 8.00A.M. – 10.00A.M.

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE (24 MARKS)

- a. Visual Basic Application (Project) is made up of forms, controls, properties, methods, event procedures, general procedures and modules. Describe each of them. [7marks]
- b. Visual Basic operates in three modes. List and describe on each of them. [6marks]
- c. When developing a stopwatch application, we have three buttons and six labels/textboxes, set properties on each of them. [6marks]
- d. Draw a simple Structure of a Visual Basic Application and name the controls [5mark]

SECTION B [36 MARKS]

QUESTION TWO [20MARKS]

- a. Visual Basic operates in three modes, list and explain on each [6marks]
- b. Six windows appear when you start Visual Basic namely [6marks]
- c. To explicitly type a variable, you must first determine its scope. There are four levels of scope, list three of them and briefly explain on each [6marks]

QUESTION THREE [20 MARKS].

- a. Within a procedure, variables are declared using the Dim statement, write down a declaration statement in visual basic. [2marks]
- b. How do you make a procedure level variable retain its value upon exiting the procedure [2marks]
- c. Draw the GUI of a stopwatch application and attach the codes for each control [14marks]

QUESTION FOUR [20 MARKS]

- a. List the three primary steps involved in developing an application using Visual Basic: [3marks]
- b. Write BASIC in full [1marks]
- c. Define Key Trapping and explain when and how it is done [4marks]
- d. Each form and control has properties assigned to it by default when you start up a new project. There are two ways to display the properties of an object. Describe the two ways [4marks]
- e. In variable declaration, there are three ways for a variable to be typed (declared): list and explain on each of them giving examples. [6marks]

QUESTION FIVE [20 MARKS]

- a. Global level variables retain their value and are available to all procedures within an application while module level variables are declared in the declarations part of the general object of a

module's code window. (It is advisable to keep all global variables in one module.) Which global key words do we use? [2marks]

- b. What happens if you declare a variable with the same name in two or more places? [2marks]
- c. How is an assignment statement written in visual basic program. [2marks]
- d. Statements normally take up a single line with no terminator, however, Statements can be stacked by using a colon (:) to separate them. Example: [2marks]
- e. If a statement is very long, it may be continued to the next line using the **continuation** character. Write down an expression to illustrate that. [2marks]
- f. Comment statements begin with the keyword Rem or a single quote ('). Write down examples of each case. [2marks]
- g. The simplest **operators** carry out **arithmetic** operations. These operators have their order of precedence. Write the operations for each of the operators listed below. [4marks]

Operator	Operation
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* /

\

Mod

+ -

- h. To **concatenate** two strings, use the **&** symbol or the **+** symbol. Write an expression demonstrating the use of the two symbols [2marks]