



KIBABII UNIVERSITY

(KIBU)

UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR

SPECIAL/SUPPLEMENTARY EXAMINATIONS

YEAR ONE SEMESTER ONE EXAMINATIONS

FOR THE DIPLOMA IN

(INFORMATION TECHNOLOGY)

COURSE CODE : DIT 052

COURSE TITLE : RAPID APPLICATION DEVELOPMENT

DATE: 22/07/2022 TIME: 8.00 A.M- 10.00 A.M.

INSTRUCTIONS TO CANDIDATE

ANSWER QUESTION ONE AND ANY OTHER TWO

QUESTION ONE (COMPULSORY)[24 MARKS]

- a) Define the following terms and Acronyms as used in visual basic [3Marks]
- RAD
 - Iteration
 - BASIC
- b) Using illustrations explain the difference between *in-built functions* and *User defined functions* as far as visual basic functions are concerned. [4 Marks]
- c) Write a visual basic function *checkVowel* that checks the character passed if it is a vowel or not. For instance *a* will be *a is a vowel* and *h* will be *h is not a vowel*. [6 Marks]
- d) Compare visual basic program with other popular programming languages [6 Marks]
- e) Describe various data types available in visual basic 6.0. [5 Marks]

QUESTION TWO [18 MARKS]

- a) What is an array? [2 Marks]
- b) Using examples, differentiate global and local variables [4 Marks]
- c) Shade a light on various branching statements used in visual basic [6 Marks]
- d) Explain any six mathematical functions of visual basic with example [6 Marks]

QUESTION THREE [18 MARKS]

- a) What is a Record as used in visual basic? [2 Marks]
- b) Describe five rules for naming the visual basic variables? [5 Marks]
- c) What do class, object, methods, and instant variables mean. [8 Marks]
- d) Discuss the show and hide statements [3 Marks]

QUESTION FOUR [18 MARKS]

- a) Give two situations when RAD works and when it doesn't work. [4 Marks]
- b) Discuss using examples the three types of looping statements in visual basic? [6 Marks]
- c) Write visual basic function that will return interest given Principle, Time and Rate. The simple interest *I* is calculated given the Principle as *P*, Rate per annum as *R* (%) and Time *T* in years using the formula $I = PTR/100$. [8 Marks]

QUESTION FIVE [18 MARKS]

- a) What is Visual Basic (VB)? [2 Marks]
- b) Write a visual basic user defined function that returns the largest number of the three numbers passed. [6 Marks]
- c) Explain some of the good and bad reasons why use or not use RAD (Rapid Application Development) [6 Marks]
- d) Define the following terms as used in visual basic 6.0 [4 Marks]
- Variable
 - Constant