



**KIBABII UNIVERSITY COLLEGE**

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**UNIVERSITY REGULAR EXAMINATIONS**

**2013 /2014 ACADEMIC YEAR**

**1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER EXAMINATIONS**

**(MAIN EXAMINATION)**

**DIPLOMA IN INFORMATION TECHNOLOGY**

**COURSE CODE:** DIT 052

**COURSE TITLE:** RAPID APPLICATION DEVELOPMENT

**DATE:** 13<sup>TH</sup> MAY,2014

**TIME:** 9:00A.M. – 11:00A.M.

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**INSTRUCTIONS TO CANDIDATES:**

Attempt question **ONE (1)** and **ANY TWO (2)** other questions from section B.

# DIT 052 MAIN EXAM

## SECTION ONE (COMPULSORY)

### **Question #1 [24 Marks]**

- a) What do you understand by the following terms as used in visual basic? [3mks]  
i. Variable  
ii. Scope  
iii. Array
- b) Explain what we mean by “Rapid Application Development”? [3mks]
- c) Explain the properties of *Form Control* in visual basic IDE [3mks]
- d) Discuss various Visual Basic file extensions. [2mks]
- e) Elucidate various elements of visual basic tool box. [3mks]
- f) Describe four rules for naming the visual basic variables? [4mks]
- g) What is message box? What is its use? Explain with suitable example [4mks]
- h) Explain the following statements [2mks]  
i. Load statements  
ii. Unload statements

## SECTION TWO (ANSWER ANY TWO QUESTIONS)

### **Question #2 [18 Marks]**

- a) Using example, explain different types of functions in visual basic? [3mrks]
- b) Explain the structure of visual basic user defined functions [4mrks]
- 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  **$I = PTR/100$** . [6mks]
- d) Distinguish between single document interface and multiple document interfaces. Write one example each of SDI and MDI type application. [3mks]
- e) Differentiate visual basic subroutines and functions. [2mks]

### **Question #3[18 Marks]**

- a) Describe how variables are declared in visual basic [2mks]
- b) Discuss global and local scope of a variable with example [4mks]
- c) Write a VB program to process the grades of a student after a click of a button CmdProcess. The marks are obtained from a text field txtMarks. [6mks]
- d) Explain three types of errors. [6mks]

## DIT 052 MAIN EXAM

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### **Question #4[18 Marks]**

- a) Define *Comments* and their use in visual basic [2mrks]
- b) Visual basic has been designed in such a way that data is handled efficiently; using examples, explain various data types that help in achieving the goal above. [6mks]
- c) Write visual basic program to display selected image after a click of the browse button. The program should allow the user to view as many images as possible. [6mks]
- d) Explain any two conditional looping structures of visual basic giving syntax of each [4mks]

### **Question #5[18 Marks]**

- a) What is a Record as used in visual basic? [2mks]
- b) Explain various differences that exist between Arrays and Records. [4mrks]
- c) Write a visual basic user defined function that returns the largest number of the three numbers passed. The function should make use of arrays. [6mrks]
- d) Shade a light on various branching statements used in visual basic [6mrks]