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(Knowledge for Development)

**KIBABII UNIVERSITY
(KIBU)**

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

END OF SEMESTER EXAMINATION

2021/2022 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER EXAMINATION

FOR THE DIPLOMA IN

(INFORMATION TECHNOLOGY)

COURSE CODE: DIT 052

COURSE TITLE: RAPID APPLICATION DEVELOPMENT

DATE: **19/05/2022** TIME: 9.00 A.M. – 11.00 A.M. 2HRS

INSTRUCTIONS TO CANDIDATES:

ANSWER QUESTION ONE AND ANY OTHER TWO.

Paper Consists of 3 Printed Pages. Please Turn Over ➔

QUESTION ONE (24 MARKS)-COMPULSORY

- a) What is Rapid application development [2 Marks]
- b) Why do you consider visual basic as a tool of Rapid Application development [2 Marks]
- c) Outline the four phases of Rapid Application Development methodology [8 Marks]
- d) Study the nested loop below and give its output. [6 Marks]

```
Private Sub Form_Activate ( )  
For firstCounter= 1to 5  
Print "Good Morning Greyson"  
For secondCounter=1 to 4  
Print "Welcome to Visual Basic Class"  
Next secondCounter *  
Next firstCounter  
Print"Thank you"  
End Sub
```

- e) Outline three advantages and disadvantages of visual basic.net [6 Marks]

QUESTION TWO (18 MARKS)

- a) What is Visual Basic? [2 Marks]
- b) Give the difference between rad and incremental model [6 marks]
- c) Give two categories of statements used in Visual basic. [4 Marks]
- d) There are various types of Variables that are used in vb.net, give and explain some of the variables used in vb.Net [6 Marks]

QUESTION THREE (18 MARKS)

- a) What do we mean by the word BASIC as used in visual basic? [2 Mark]
- b) List and explain different types of operators in visual basic [6 Marks]
- c) List and explain five types of loops available in VB.NET: [10 Marks]

QUESTION FOUR (18 MARKS)

- a) What is .NET Framework? [2 Marks]
- b) Shade a light on various branching statements used in visual basic [6 Marks]
- c) Study the VB program below and give the output as they are arranged. [4 Marks]

```
Private Sub Form_Activate ( )  
  
Print 40 + 10  
Print 40 - 10  
Print 40 * 10  
Print 40 / 10  
  
End Sub
```

- d) Compare visual basic program with other popular programming languages [6 Marks]

QUESTION FIVE (18 MARKS)

- a) Define a data type. [2 Marks]
- b) Draw a diagram representing decision tree in VB.Net giving clearly the root node, leaf node showing chance and decision. [5 Marks]
- c) You can use the + or the & operator to join two or more texts (string) together. Write a code to output the following. "Maureen likes smiling in class" using either + or & operator. [5 marks]
- d) Using examples, differentiate global and local variables [6 Marks]