UNIVERSITY REGULAR EXAMINATIONS
2013/2014 ACADEMIC YEAR

SEMESTER EXAMINATION

FOR THE CERTIFICATE IN INFORMATION TECHNOLOGY

COURSE CODE: DIT 052

COURSE TITLE: RAPID APPLICATION PROGRAMMING

DATE: 18TH AUGUST, 2014   **TIME: 9:00A.M.-11:00A.M.**

INSTRUCTIONS

ANSWER **QUESTION ONE** AND ANY OTHER TWO

Q1.

    a) Define the following as used in visual basic programming:-

        i.   Variable
        ii.   Procedure
        iii. Parameter
        iv. DAO
        v.   ADODC   (10 Marks)

    b) Using an example, explain the following visual basic control structures:-

        i.   goto

        ii.   Do...Loop Until

        iii. Select... Case   (9 Marks)

    c) Using a nested control structure, write a program that populates a two-dimensional array
                                    (5 Marks)

Q2.

    a) Using appropriate examples where necessary, describe any three ways of connecting a visual basic program to the database   (9 Marks)

    b) In each of the above ways, describe one advantage and disadvantage.   (6 Marks)

    c) Stating any two locktype examples, illustrate why locking database records is important
                                    (5 Marks)

Q3.

Given the following information, in an upcoming health center, patient is required to first report at the registry where the patient details are taken. The patient is then send to the consultancy room where the consultant takes the patient's symptoms, makes a diagnosis, prescribes medication then sends him/her to the pharmacy. From the pharmacy, the patient clears with the accounts before leaving.

    i) Draw illustrative interfaces that would capture the described scenario   (3 Marks)

    ii) Write a program that would connect to the database through the ODBC data Sources
                                    (3Marks)

    iii) Write a procedure that would

                i)   Add records

                ii)   Edit records

                iii) Search for a record

iv) Delete a record (12 Marks)

Q4.

Using appropriate examples, describe the program development life cycle. (18 Marks)

Q5

a) Discuss the output of the following program

```
Dim FirstObjectValue As Object

Dim SecondObjectValue As Object

Dim ThirdObjectValue As Object


Set FirstObjectValue = CreateObject("Excel.Application")

Set SecondObjectValue = FirstObjectValue.Open(App.Path & "\test.xls", True)


With ThirdObjectValue.Sheets(1)

  .Activate

  Text1.Text = .Cells(1, 1).Value

  Text2.Text = .Cells(1, 2).Value

  Text3.Text = .Cells(1, 3).Value
```
(5 Marks)

b) Using examples, illustrate how a programmer can switch between datatypes in Visual Basic
(8 Marks)

c) Describe the qualities of a good program (5 Marks)