DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

DIPLOMA IN I.T- DIT10M

ECS 2212 **EVENT DRIVEN PROGRAMMING II**

SECTION A COMPULSORY

QUESTION 1

a) Briefly define the following terms
   i)   Sequential file   (2 marks)
   ii)   Static array   (2 marks)
   iii)   Database application   (2 marks)
b) Write a visual basic program illustrating how to assign sting values from an array of five elements to another array of the same number of elements
                                    (6 marks)
c) Explain the importance of the following functions in handling files
   i)   EOF()   (2 marks)
   ii)   FreeFile()   (2 marks)
   iii)   FileLen()   (2 marks)
d) Name three modes on which data can be accessed from files
        (3 marks)
e)
   (i)   List three types of errors   (3 marks)
   (ii)   Give one example of each type of error listed above (i)
               (6 marks)

SECTION B (answer any two questions)

QUESTION 2

Assume a text file named schools.txt is already stored in C: drive containing the following information

   1. "Mnarani Primary School.",1023
   2. "Tononoka Primary School.",1225
   3. "Ganjoni Primary School.",5055

Study the code below and answer the questions that follow.

Dim info As String

Open "C:\Schools.txt" For INPUT As #23

Line Input #23, Info

Close #23

Msgbox Info

a) What is the output of the above code? (4 marks)
b) Explain the function of the following keywords (6 marks)
   i)   INPUT
   ii)   LINE INPUT
c) Write a program required to store the information available in the file Schools.txt (5 marks)

QUESTION 3

(a) Explain any three error object properties which can be used in error handling routines
                                                                                    (3 marks)
(b) Write a simple visual basic program to show the implementation of the three error object properties
         (8 marks)
(c) Explain the following general syntax for opening a text file
         (4 marks)
   Open <FILENAME> For <MODE> As <FILE#>

QUESTION 4

a) Mention three components of visual basic database application
         (3 marks)
b) Describe one function of each of the three data base application components mentioned in (a)
                                                                                    (3 marks)
c) Draw a block diagram to illustrate how data base components are interlinked
                                                                                    (6 marks)
d)
   (i)   What are the two major functions of data controls? (2 marks)
   (ii)   Give one example of data base control
            (1 mark)

QUESTION 5

a) Write a program which stores 9 integer values to a binary file named Temp.dat that is stored in E: drive
                                    (4 marks)
b) Write a simple code to illustrate private type declaration of four variables in binary files

(4 marks)

c) Describe three advantages of random access files over sequential files
(6 marks)

d) Distinguish between records and fields
(1 marks)