



# THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

*Faculty of Engineering & Technology*

DEPARTMENT COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION TECHNOLOGY – DIT 10M

**ECS 2212: EVENT DRIVEN PROGRAMMING II**

END OF SEMESTER EXAMINATIONS

**SERIES: DECEMBER 2011**

**TIME: 2 HOURS**

## **Instructions to Candidates:**

You should have the following for this examination

- *Answer Booklet*

This paper consist of **FIVE** questions in **TWO** sections **A & B**

Answer question **ONE (COMPULSORY)** and any other **TWO** questions

Maximum marks for each part of a question are as shown

This paper consists of **THREE** printed pages

## SECTION A (COMPULSORY)

### QUESTION ONE (30 MARKS)

- 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 string 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) (i) Name three modes on which data can be accessed from files (3 marks)
- (ii) List **THREE** types of errors (3 marks)
- (iii) Give **ONE** example of each type of error listed above (ii) (6 marks)

## SECTION B (ANSWER ANY TWO QUESTIONS)

### QUESTION 2 (15 MARKS)

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 THREE (15 MARKS)

- (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 FOUR (15 MARKS)

- 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)
  - (i) What are the **two** major functions of data controls? (2 marks)
  - (ii) Give **one** example of data base control (1 mark)

### QUESTION FIVE (15 MARKS)

- 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)