# THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

*Faculty of Engineering and Technology*

**DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY**

DIPLOMA IN INFORMATION TECHNOLOGY
DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY
**DICT 2K 9J, DICT 9M, DIT 2K 9J**

**EIT 2206: EVENT DRIVEN PROGRAMMING**

SPECIAL/SUPPLEMENTARY EXAMINATION
**SERIES:** OCTOBER 2011
**TIME:** 2 HOURS

## Instructions to Candidates:

You should have the following for this examination
- *Answer booklet*

Answer question **ONE (COMPULSORY)** in section A and any other **TWO** questions from section B
Maximum marks for each part of a question are clearly shown.
This paper consists of **THREE** printed pages

**SECTION A** (COMPULSORY)

**Question 1**

a) Briefly explain the difference between an event driven programming and traditional 'procedural' programming. (4      marks)

b) Explain the following as used in event driven programming.
   i)   An event
   ii)  An object                                                                                    (4 marks)

c) Develop a Visual Basic program to read ten elements in an array and sort them in ascending order.
                                                                                                              (9 marks)

d) Write a visual basic program to compute the sum of the 10 numbers starting from 20+20+21+ …..29+30)                                                                          (6 marks)

**SECTION B** (Answer any **TWO** questions from this section)

**Question 2**

a) Define the term 'Project' as used in visual basic                                   (2 marks)

b) State and describe any **FIVE** elements of a project                            (10 marks)

c) State any **THREE** third party Database management system supported by visual basic (3 marks)

d) Using a nested for loop develop Visual Basic programs to output the following:

   1
   22
   333
   4444
   55555                                                                                           (8 marks)

**Question 3**

a) Using suitable example, distinguish between option explicitly and option implicitly.   (4 marks)

b) Explain the following key words as used in Visual Basic
      i)   Public
      ii)  Private
      iii) Static
      iv)  Constant                                                                                 (8 marks)

c) Explain the difference between a sub procedure and a function procedure            (2 marks)

d) Explain with examples any **THREE** controls structures (9 marks)

**Question 4**

a) Explain any **THREE** types of errors in Visual Basic (6 marks)

b) Explain methods employed in fixing the above error (4 marks)

c) Define the following terms as used in Visual Basic
    i) Splash Screen
    ii) Multiple Document Interface (4 marks)

d) Explain any **FOUR** controls that can be used to get Uses choice (4 marks)

e) Write a Visual Basic program to simulate the following using an input box and message box

    i) When the word Red entered on input box it should give a message "stop"
    ii) When the word Green entered on input box it should give a message "proceed"
    iii) When the word Yellow entered on input box it should give a message "Get ready"

(5 marks)

**Question 5**

a) Explain Data control as used in Visual basic (1 mark)

b) Explain the following properties of Data control
    i) Connect
    ii) Database Name
    iii) Record source
    iv) Record set type (8 marks)

c) Using relevant examples, explain the purpose of the following as used in visual basic

    i) dBrid
    ii) Frame
    iii) Timer (6 marks)

d) Explain any **FOUR** factors need to be considered when designing a program (8 marks)