



# THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

*Faculty of Engineering and Technology*

**DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY**

UNIVERSITY EXAMINATION FOR THE DEGREE IN  
BACHELOR OF TECHNOLOGY IN INFORMATION &  
COMMUNICATION TECHNOLOGY  
**(BTech. ICT 11M) (YR II, SEM I)**

**EIT 4203 : WINDOW DESKTOP APPLICATION PROGRAMMING**

END OF SEMESTER EXAMINATIONS

**SERIES:** AUGUST/SEPTEMBER 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 is as shown

This paper consists of **THREE** printed pages

**SECTION A (Compulsory – 30 MARKS)**

**Question ONE**

- a) List **FOUR** guidelines to be followed when developing User Interface (4 Marks)
- b) Explain functions of three Windows contained in the Visual Basic Integrated development environment (IDE) (6 Marks)
- c) Explain any **FOUR** controls that can be used to get users choice in visual basic (4 Marks)
- d) Explain what is mean by ‘comment’ as applied to programming. (2 Marks)

- e) Explain with example the format of implementing following:
- i. Variable.
  - ii. Constant.
  - iii. Comment
- (3 Marks)
- f) Write an event procedure that will accept an integer form users and test if it is even or an odd number
- (4 Marks)
- g) Explain the use of the following in Visual Basic:
- i) Isnumeric
  - ii) Ccurr
  - iii) Val
  - iv) Isnull
- (4 Marks)
- h) Explain the essence of Documentation in programming
- (3 Marks)

**SECTION B (Answer any TWO questions)**

**Question TWO (20 Marks)**

- a) List any **FOUR** Find methods
- (2 Marks)
- b) Develop Visual Basic programs to output the following:
- i) \*  
\* \*  
\* \* \*  
\* \* \* \*  
\* \* \* \* \*
- (4 Marks)
- ii) 1  
1 2  
1 2 3  
1 2 3 4  
1 2 3 4 5  
1 2 3 4 5 6
- (4 Marks)
- c) Write a Visual Basic statement to declare an array to store names of 50 students
- (2 Marks)
- d) Distinguish between a Binary operator and Unary operator giving an example of each
- (4 Marks)
- e) State **Four** Visual Basic rules in naming variable
- (4 Marks)

**Question THREE (20 Marks)**

- a) Describe any **FOUR** types of 'recordsets' stating one advantages of each
  - b) Sate any **THREE** options that can be used when opening a recordset
  - c) Explain any **THREE** types of errors in Visual basic
- (10 Marks)  
(4 Marks)  
(6 Marks)

**Question FOUR (20 Marks)**

- a) A class of 20 students sat for an exam. Write a Visual Basic procedure that will read the marks of the 20 students and output the number of students who passed the exam and the number who failed. The pass mark is the average mark. Attach the code to command button (10 Marks)
- b) Distinguish between static and dynamic arrays. An array 'EmpSal' has been as static array to store employee salaries; write Visual Basic code to store salaries of 20 more employees in the array, without losing any data stored in it. (4 Marks)
- c) List any **TWO**
- i. Relational
  - ii. Logical operator used in visual basic (4 Marks)
- d) List any **TWO** events, apart from mouse events that can be used in visual basic codes. (2 Marks)

**Question FIVE (20 Marks)**

- a) Write a Visual Basic code that will display 'The mean mark is 85' and 'The final Grade is A' on two separate line on a MsgBox (3 Marks)
- b) Using suitable example explain module operator: (2Marks)
- c) Explain 'passing parameter by value and by reference' as applied to Visual Basic. Give an example of each, using Visual Basic syntax. (7 Marks)
- d) Explain the use of the following statements:
- i) Break.
  - ii) Continue (4 Marks)
- e) Describe Ms Common Dialog control and any Two methods associated with the control (4 Marks)