



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

(A Centre of Excellence)

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION TECHNOLOGY

(DIT 2K 11M DIT M11)

ECT 2204: OFFICE APPLICATION PROGRAMMING

END OF SEMESTER EXAMINATION

SERIES: AUGUST 2012

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 (20 marks)

- a) Discuss the following as used in VB:
- i) Property window
 - ii) Immediate window
 - iii) Form layout window
 - iv) Project explorer
 - v) Menu bar
- (5 marks)**
- b) Explain the following properties:
- i) Visible
 - ii) Enabled
 - iii) Caption
 - iv) Text
- (4 marks)**
- c) Define 'dynamic Array'. Explain how dynamic arrays are created. **(3 marks)**
- d) Define the term 'variable'. **(1 mark)**
- e) State rules for naming variables. **(3 marks)**
- f) List any **TWO** mouse and any keyboard events. **(4 marks)**

SECTION B (Answer Any Two Questions)

Question Two (20 marks)

- a) Explain the following properties:
- i) Connect property of Data Control
 - ii) Record source property of Data Control
 - iii) Data source property of textbox
 - iv) Data field property of text box
- (8 marks)**
- b) Write a VB event procedure to store names of 10 employees and their phone extension numbers in an array.
Write a function that will accept employee name and search the array and return the employee's extension number if found in the array else return an appropriate message. **(12 marks)**

Question Three (20 marks)

- a) Explain the following:
- i) Open Database connectivity (ODBC)
 - ii) OLE DB
 - iii) Activex Data Object (ADO)
 - iv) Data Access Object (DAO)
- (8 marks)**
- b) Describe error that can occur in a program. **(6 marks)**
- c) Define the term 'cursor' **(2 marks)**
- d) List **FOUR** types of cursors. **(4 marks)**

Question Four (20 marks)

- a) Explain the following:
i) Event procedure
ii) General procedure
iii) Function (6 marks)
- b) Explain the following VBA function giving appropriate examples.
i) Cur ()
ii) Chr ()
iii) IsDate ()
iv) LCase ()
v) IsNumeric () (10 marks)
- c) Write a VBA procedure that will accept date and check if the year is a leap year or not and output appropriate message. (4 marks)

Question Five (20 marks)

- a) Explain the use of the following:
i) MsgBox
ii) InputBox
iii) ListBox
iv) ComboBox (4 marks)
- b) Write VBA code to add names of any four towns into a list box. (2 marks)
- c) Describe any **THREE** structures used in VBA. (6 marks)
- d) Write a VBA event procedure that will read name of day Monday through Friday from a Combo box and output the subject taught to a class. Use select...END select
The subjects and days one shown in table below: (8 marks)

Day	Subject
Monday	Web design
Tuesday	Visual Basic
Wednesday	C++ Programming
Thursday	Java Programming
Friday	Internet Programming