



**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 11M)

**EIT 2204: OFFICE APPLICATION PROGRAMMING**

**SPECIAL/SUPPLEMENTARY EXAMINATION**

**SERIES: OCTOBER 2012**

**TIME: 2 HOURS**

**Instructions to Candidates:**

You should have the following for this examination

- *Answer Booklet*

This paper consist of **FIVE** questions

Answer question **ONE** 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) Explain any **FOUR** windows of Integrated Development Environment (IDE) of VB. **(8 marks)**
- b) Differentiate between “call by value” and “call by reference”. **(4 marks)**
- c) Differentiate between standard EXE and Activex EXE application. **(4 marks)**
- d) Explain **FOUR** mouse events. **(4 marks)**

**SECTION B (Answer Any Two Questions)**

**Question Two (20 marks)**

- a) Explain how variables are declared in VBA. **(2 marks)**
- b) Describe the scope of variables in VBA giving suitable example of each. **(4 marks)**
- c) (i) Define “Array”  
(ii) Using suitable examples differentiate between static and dynamic arrays. **(5 marks)**
- d) Explain the following:
  - i) Connecting string
  - ii) Cursor **(4 marks)**
- e) Write a simple application that will accept mark from user and display the grade in on label. The grading scheme is shown below. **(5 marks)**

Mark	Grade
0 – 49	Fail
50 – 69	Pass
70 – 100	Credit

**Question Three (20 marks)**

- a) Describe any **TWO** repetition structures used in VBA. **(4 marks)**
- b) Explain the following:
  - i) On Error Goto
  - ii) On Error Resume Next
  - iii) Err. Description **(6 marks)**
- c) A company pays its salespersons a basic salary of kshs. 20,000/= plus a commission of 5% of gross sales. Develop a program that will accept salesperson’s name and gross pay and display the total pay and salespersons name. The code should process earning of five sales persons. **(10 marks)**

**Question Four (20 marks)**

- a) Define a function

- b) Explain the following terms as applied to objects giving an example of each.
- i) Method
  - ii) Property
- (4 marks)
- c) Explain the use of the following in VBA:
- i) Message Box
  - ii) Inputbox
  - iii) Ust Box
  - iv) Combo Box
- (4 marks)
- d) Write VBA code to add names of FOUR towns to a list box.
- (2 marks)
- e) Explain the following
- i) Open Database connectivity (ODBC)
  - ii) OLE DB
  - iii) ActiveX Data Object (ADO)
  - iv) Data Access Object (DAO)
- (8 marks)

**Question Five (20 marks)**

- a) List any **SIX** of ADO objects.
- (3 marks)
- b) Explain the following VBA function giving suitable example.
- i) ABS ()
  - ii) Chr ()
  - iii) Is Date ()
  - iv) Lcase ()
  - v) Isnumeric
- (10 marks)
- c) Define the term 'Cursor'
- (2 marks)
- d) List any **FOUR** types of cursors.
- (4 marks)
- e) Explain LockType property of record set.
- (1 mark)