



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND  
TECHNOLOGY  
SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEM  
UNIVERSITY EXAMINATIONS: 2013/2014  
SCS 211: VISUAL BASIC PROGRAMMING  
BUSIA LEARNING CENTRE**

**DATE: DECEMBER 2013**

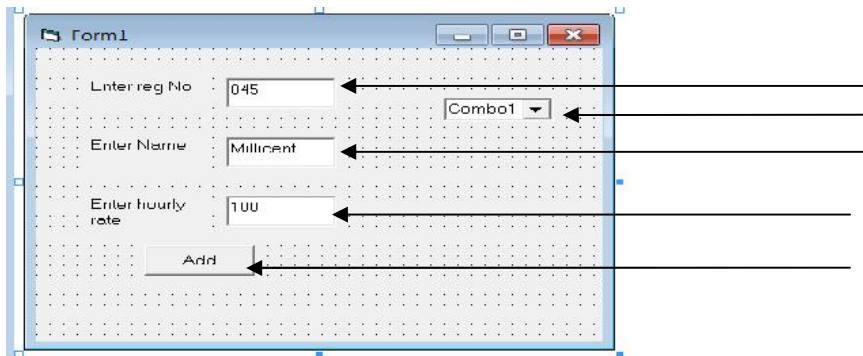
**TIME: 2 HOURS**

**INSTRUCTIONS:**

- 1. This paper contains five (5) questions.**
- 2. Question ONE is Compulsory and any other TWO questions**
- 3. Answer the questions on the booklet provided**
- 4. Mobile phones are not allowed in the exams room**

### Question one 30marks

- a) State and explain 2 characteristic of objects in visual basic programming (2marks)
- b) Explain the following controls as used in visual basic
  - i. Combo box
  - ii. List box
  - iii. Label (6marks)
- c) Describe two controls that are associated with files as used in visual basic (4Marks)
- d) Figure shows a visual basic window at design time. use it to answer the question that follow.



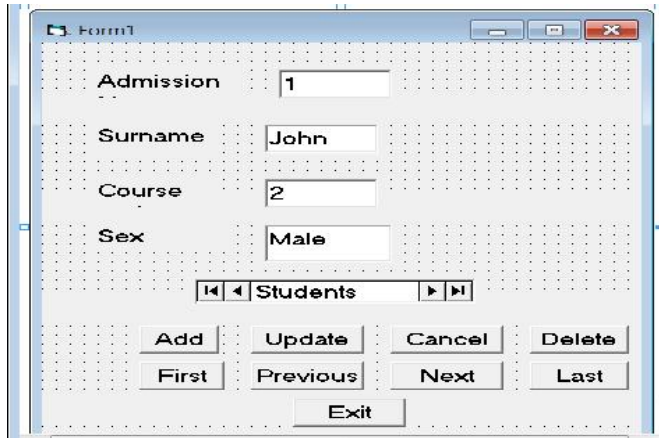
Write visual basic program attached to command click event that will

- i. Change the font color and font style of the value Millicent to red and italic respectively (2Marks)
- ii. Clear the content in the text boxes (2Marks)
- iii. Add the following values to the combo box, Kenya, Uganda, Tanzania, Sudan (4marks)

### Question two 20 MARKS

- a) With 2 example explain two types of visual basic data types (6Marks)
- b) Define the following as used in visual basic programming
  - i. Variable
  - ii. Constant (4Marks)

Study the GUI bellow and answer the question that follow



The data control above is linked to a table named tblstudentDetails in a database called "school.mdb" whose path is "c:\Application\schoo.mdb" table details has the following fields, Admission number,surname,coursecode,sex.

- c) State the values for each of following properties of the data control
    - i. Database Name
    - ii. Record source
  - d) Write the code that should be tied to the following command button to achieve the following achieve the following
    - i. Add records
    - ii. Update the database
    - iii. Move to the next record
    - iv. Move to the first record
- (10marks)

### Question three 20 MARKS

- a) **Explain** the following types of recordset supported by DAO recordset
  - i. Table
  - ii. Dynaset (4marks)
- b) Sketch the Dialogs produces by the following statement
  - i. MsgBox"General failure",vbAbortRetryIgnare+VbExclamation,"Failure Error"(4marks)
  - ii. varTest=inputbox("enter details now","input details","5") (4marks)
- c) Eplain three advantages for marking a project on executable file (3marks)
- d) Describe the process of adding active x control to the toolbox (4marks)
- e) Explain the types of control structures used in visual basic programming (6marks)

**Question four 20 MARKS**

- a) Explain the use of the following properties and functions as used in visual basic programming
  - i. Name
  - ii. Caption
  - iii. Val
  - iv. cDbl
  - v. textboxes

(5marks)
- b) consider the program code segment bellow to answer question

```
Dim k as integer,m as integer  
  
for k=1 to 3  
  
picdisplay.print k  
  
for m=1 to 3  
  
picdisplay.print m;  
  
next m  
  
picdisplay.print  
  
next k
```

- i. Write the output that will be generated by the program fragment(4marks)
- ii. Rewrite the statement using a Do While.....loop (5marks)
- iii. Rewrite the statement using Do.....loop while (6marks)

**Question five 20 MARKS**

- a) Explain the term variable scope and give types of visibility mode as used in visual basic program (4marks)
- b) Explain three operators used in visual basic program (6marks)
- c) Given the table bellow grades corresponds the message. Use it to answer the question

Grade	Message
A	Excellence
B	Good
C	Above average
D	Average
E	Fair
Bellow E	invalid

Write a visual basic program that will accept a letter through a textbox1 and display the message through label1 .use case control structure. (10marks)