



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

**DATE: DECEMBER 2013
2 HOURS**

TIME:

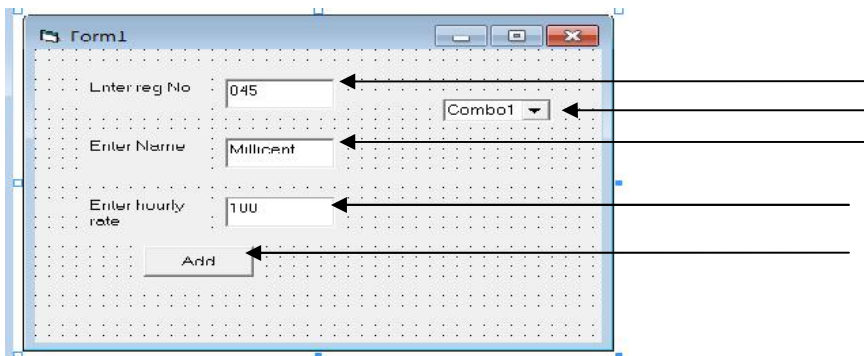
INSTRUCTIONS:

Answer ALL QUESTIONS IN SECTION A AND ANY TWO FROM SECTION B

SECTION A (COMPULSORY- 30 Marks)

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.



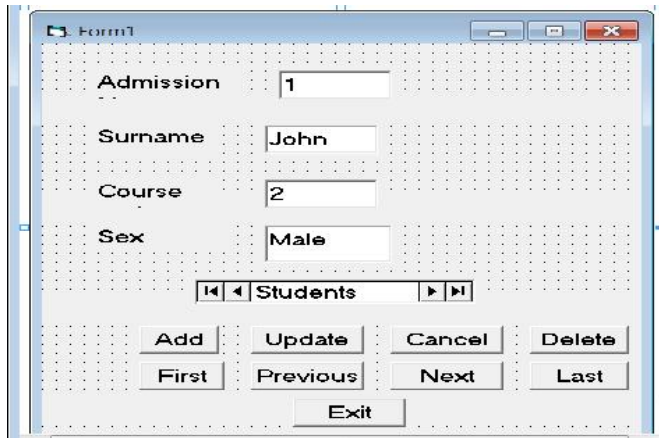
Write visual basic program attached to command click event that will

- i. Change the font colour 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)