

**W1-2-60-1-6**

## JOMO KENYATTA UNIVERSITY

**OF**

**AGRICULTURE AND TECHNOLOGY**

# University Examinations 2014/2015

**SPECIAL/ SUPPLEMENTARY YEAR I EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY**

**BIT 2206: APPLICATION PROGRMMING II**

**DATE: APRIL 2015 TIME: 2 HOURS**

**INSTRUCTIONS: ANSWER QUESTION ONE (COMPULSORY) AND**

**ANY OTHER TWO QUESTIONS.**

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**QUESTION ONE (30 MARKS)**

(a) Describe the three types of code modules that Visual Basic

Supports. (6 marks)

(b) Write the Syntax for function declaration in Visual Basic. (4 marks)

(c) Using appropriate examples explain the following commands:

i) Exit sub

ii) Option explicit (4 marks)

(d) State the difference between in-process server and out-of

process server. (8 marks)

(e) Write an SQL statement to insert student name date if birth and

course registered for in a table named +BC – student details.(4 marks)

(f) Outline the various variable data types of support in visual basic programming environments. (4 marks)

**QUESTION TWO (20 MARKS)**

(a) Discuss the following visual basic standard controls:

i) MSH Flex Grid

ii) Data Grid

iii) Msg box

iv) List vions (5 marks)

(b) Write a case expression statement that shall enable a user to key in marks in a textbook and a respective grade is displayed back to the user on cliac of command button labeled “Display” The grades are as per the bands depicted below:

|  |  |  |
| --- | --- | --- |
| Minimum | Maximum | Grade |
| 70 | 100 | A |
| 60 | 69 | B |
| 50 | 59 | C |
| 40 | 49 | D |
| Any other marks |  | E |

(11 marks)

**QUESTION THREE (20 MARKS)**

(a) Using appropriate examples, illustrate the syntax for involving MsgBox ( ) Function. (4 marks)

(b) With appropriate code shippet, write an if---else statement in visual programming. (4 marks)

(c) Describe steps to be followed to connect to a database in access (“mydb.mdb”) The database contains a table called tBL – classes. Display the data in that table on a Dbtirid control and include appropriate navigational tools provided for in VB. Use a diagram to display your GOI and appropriate event codes needed to achieve the task. (12 marks)

**QUESTION FOUR (20 MARKS)**

(a) Outline three principles of user interface design by explaining each why it is important to follow such principles while developing applications.

(8 marks)

(b) i) Differentiate a constant and variable in visual basic

programming. (4 marks)

ii) State the syntax declarations of the two types of

variables in question (b) above. (4 marks)

(c) With appropriate syntax write how to implement

Do---While in VB programming. (4 marks)

**QUESTION FIVE (20 MARKS)**

(a) Give the output for the following section of code and

explain your solution.

i) Dim d1 d2 as Date

d1 = Date

d2 = # 1/1/201

Print DateDiff (“d”, d1, d2) (5 marks)

(b) Dim x as integer

for x = 20 t0 10 step – 2

select case (i)

case 15 – 20

print “\*”

Case 10 – 14

Print “#”

End select

Next (5 marks)

(c) Explain use of the following property:

i) Columns property of listbox

ii) Wordwrap property of label]

iii) Interval property of timer

iv) Style property of command button (4 marks)

(d) Write a user defined function which accepts a number and returns its resources. (6 marks)