# PAN AFRICA CHRISTIAN UNIVERSITY

**BACHELOR OF BUSINESS INFORMATION TECHNOLOGY AND BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY**

**END OF SEMESTER EXAMINATION**

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|---|---|
| **DEPARTMENT:** | **COMPUTING AND INFORMATION TECHNOLOGY** |
| **COURSE CODE:** | **BIT208/BSIT208** |
| **COURSE TITLE:** | **EVENT DRIVEN PROGRAMMING** |
| **CAMPUS:** | **ROYSAMBU** |
| **EXAM DATE:** | **TUESDAY,XXXX APRIL,2026** |
| **TIME:** | **8:00AM-10:00AM** |

**INSTRUCTIONS**

- This exam script has **TWO (2)** sections.
- Read all questions carefully before attempting.
- Answer All questions in Section **A** and any other Three questions in Section **B.**
- Write only your **student number** on the answer booklet provided.

**SECTION A**

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**(Answer ALL questions in this section)**

**Question One (10 Marks) Compulsory**

a) "Visual Basic is an event-driven programming." Justify this statement. **[2 Marks]**

b) Juma wrote a program and declared each of the following as variable names. Explain, giving a reason, why each could be incorrect.

i.123name **[1 Mark]**

ii. End Sub **[1 Mark]**

c) Eric a programmer intends to create an application in Visual Basic program and would like to connect a database to bound controls on the forms.Highlight two controls that would help him achieve his goal. **[2 Marks]**

d) Write Visual Basic code to calculate the area of a rectangle when the user enters the length and width in "txtlength" and "txtwidth" respectively. The area of the rectangle is displayed in the "txtarea".

**[4 Marks]**

**SECTION B**

**(Answer any THREE (3) questions in this section)**

**Question Two (10 Marks)**

a) With reason, state the most appropriate VB data type for each variable that stores the following values. **[3 Marks]**

i. A student registration number

ii. Amount of money paid as fees by a student

iii. Whether a student is male or female

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b) A Visual Basic program is required to calculate the average of the first twenty positive integers, and display the sum in lblSum and average in lblAverage.

i. Write the above program using a *Do.While* loop **[4 Marks]**

ii. Rewrite the above program using *Do..Until* loop **[3 Marks]**

**Question Three (10 Marks)**

a) Identify the errors, in the following program, and suggest how you would solve them.

```
Dim strTest, 123str As String
 strTest = 34
messageBox.Show("Welcome to Event driven programming")
"testing" = strTest
txtTest.Text = strTest
Dim intVar As Integer
```

**[5 Marks]**

b) Write a Visual Basic code to add the following names of departments, Business, Electrical, Building, Information Technology and Mechanical in a combo box. **[5 Marks]**

**Question Four (10 Marks)**

a) Determine the output from each of the following Visual Basic logical statements. **[2 Marks]**

i. if(expression 1) is true and (expression 2) is true;

ii. if(expression 1) is false or (expression 2) is true;

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b) Write a Visual Basic program that will be able to display different age category in the table below. *Use if … else statement,* attach a code to a command click client.

**[8 Marks]**

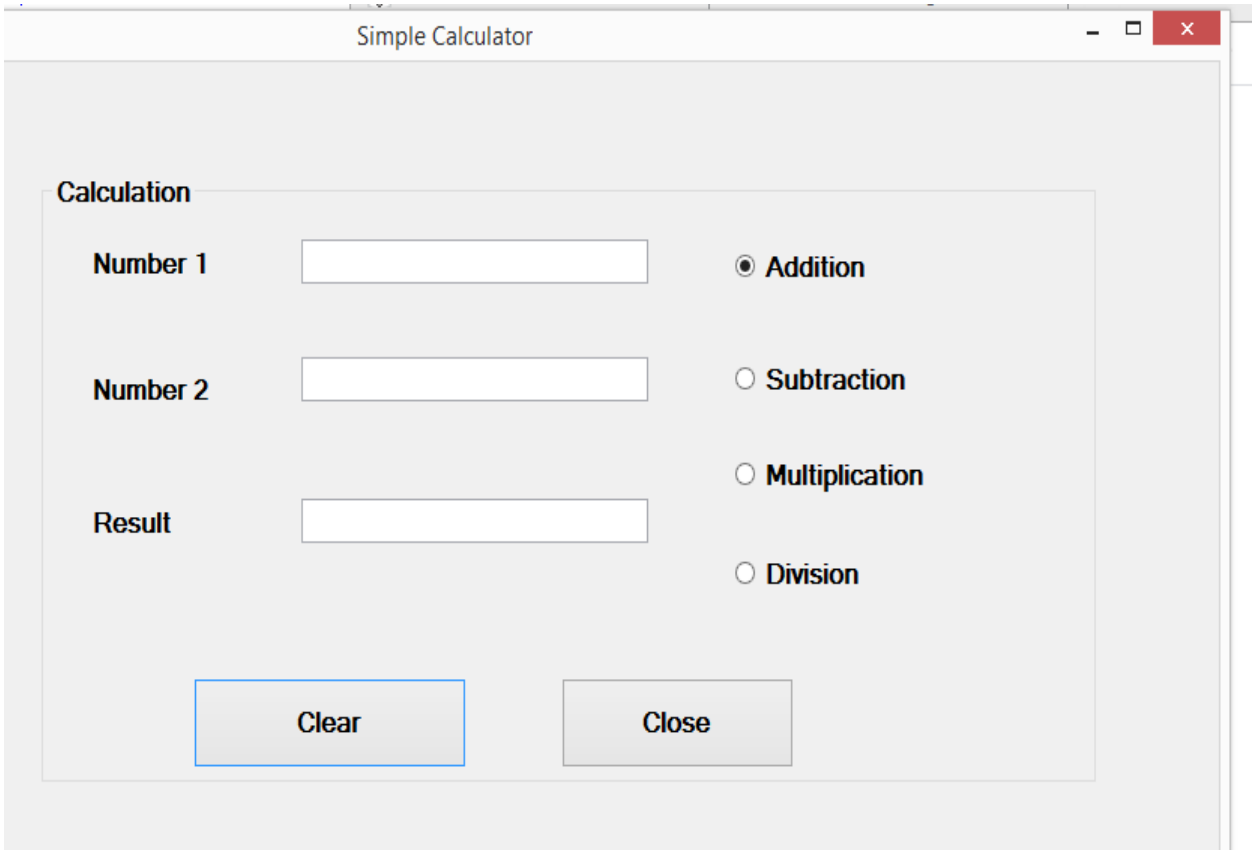
| Age | Category |
|---|---|
| Equal to 5 | Young |
| Between 13 and 19 | Teenager |
| Between 20 and 35 | Special adult |
| Above 50 | Senior citizen |
| Any other | Everyone else |

**Question Five (10 Marks)**

Write Visual Basic code for each of the radio buttons to calculate the sum, difference, product and quotient of two numbers when the user enters Number 1 and Number 2 in "txtNumber1" and "txtNumber2" respectively. The product is displayed in the "txtResult". Also attach the code in a "Clear" and "close" buttons click event. The form is shown below:

**[10 Marks]**

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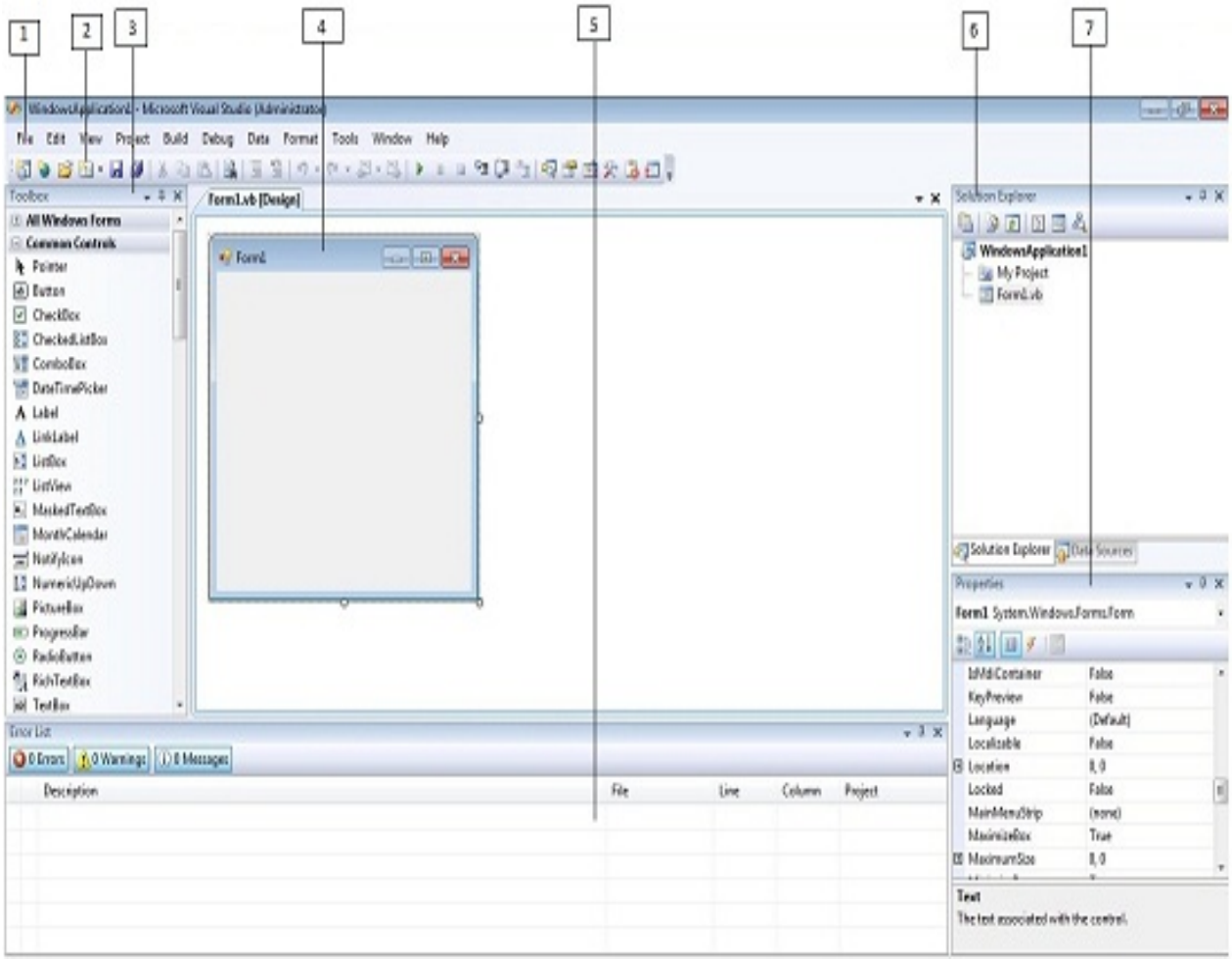



**Question Six (10 Marks)**

a) Distinguish between *variablename=inputbox("message")* and *variablename=val (inputbox ("message"))* statement as used in Event driven Programming. **[4 Marks]**

b) The Screen interface below shows the features of the Visual Basic IDE.

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i. Identify the parts labelled 3, 4, 6 and 7. **[2 Marks]**

ii. Explain the functions of the parts you have named in (i) above. **[4 Marks]**

**EOF**

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