

PAN AFRICA CHRISTIAN UNIVERSITY

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

END OF SEMESTER EXAMINATION

DEPARTMENT: COMPUTING AND INFORMATION TECHNOLOGY

COURSE CODE: BIT208/BSIT208

COURSE TITLE: EVENT DRIVEN PROGRAMMING

CAMPUS: ROYSAMBU

EXAM DATE: XXXX,XXXX APRIL,2024

TIME: XXXXXXXX

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

(Answer ALL questions in this section)

Question 1:

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 2:

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

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 3:

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 4:

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;

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 5:

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]

Simple Calculator

Calculation

Number 1

Number 2

Result

☒ Addition

☐ Subtraction

☐ Multiplication

☐ Division

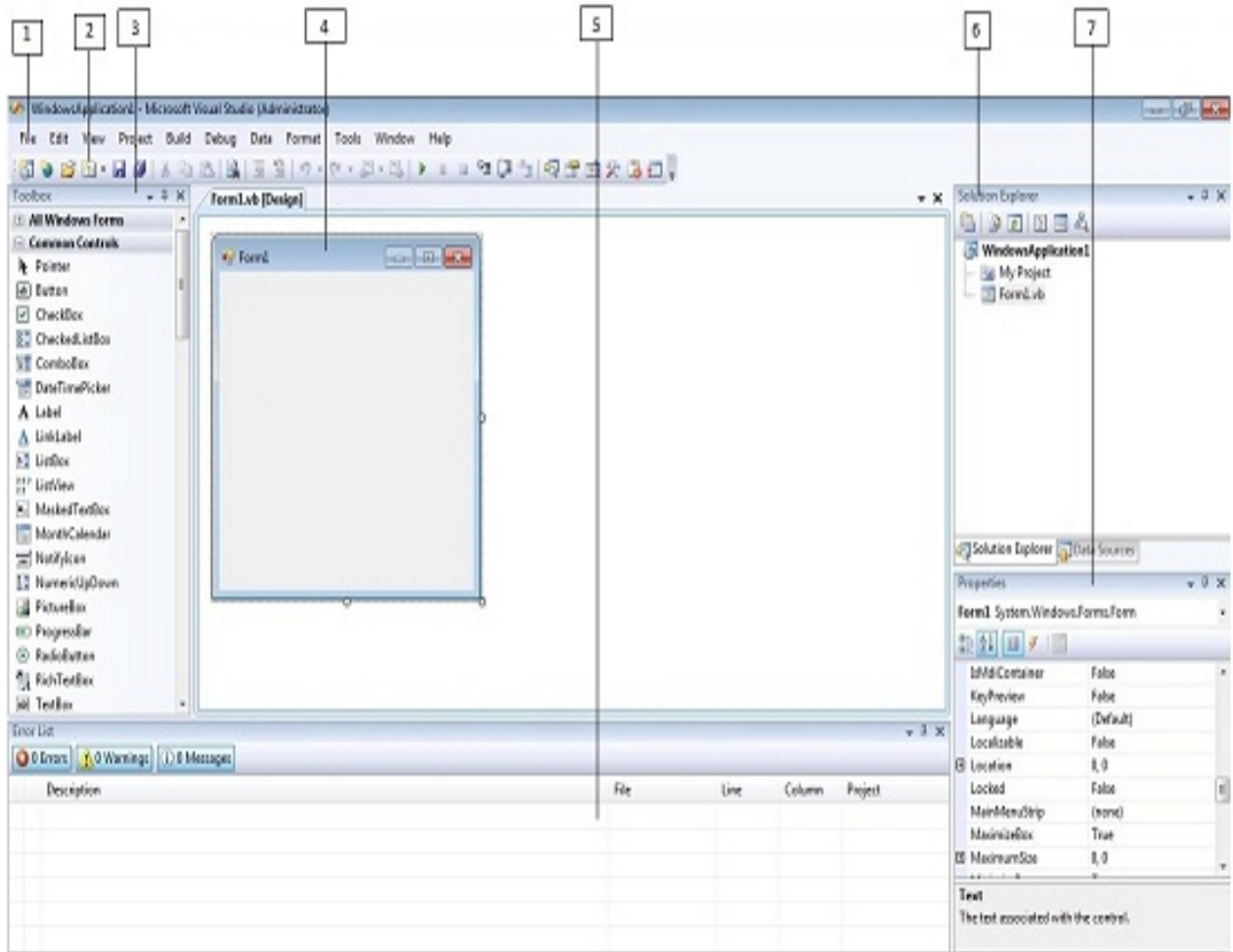
Clear Close

Question 6:

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.



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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EXAMINATIONS PAPER**

