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BCA/5/CC/27

Student's Copy

**Professional Course Examination (Odd), 2023**

( 5th Semester )

**BACHELOR OF COMPUTER APPLICATIONS**

Course No. : BCA/5/CC/27

( GUI Programming )

Full Marks : 75

Time : 3 hours

The figures in the margin indicate full marks for the questions

**( PART : A—OBJECTIVE )**

( Marks : 25 )

**SECTION—I**

( Marks : 15 )

I. Tick (✓) the correct answer in the brackets provided : 1×10=10

1. Which of the following extensions is used to represent the project file in Visual Basic?

- (a) .vbp      (    )
- (b) .vb        (    )
- (c) .cls        (    )
- (d) .docx      (    )

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2. The variable name is also termed as

- (a) keyword ( )
- (b) token ( )
- (c) identifier ( )
- (d) object ( )

3. In the Visual Basic application, which of the following is a common property of a control in a properties window?

- (a) Items ( )
- (b) Value ( )
- (c) Name ( )
- (d) Text ( )

4. Which of the following is the default name assigned to the label control in Visual Basic?

- (a) Label1 ( )
- (b) DefaultLabel ( )
- (c) Label0 ( )
- (d) NewLabel ( )

5. How many times will the `MessageBox.Show` method in the following code be processed?

```
intCount = 0
Do While intCount > 3
    MessageBox.Show("Hello")
    intCount = intCount + 1
Loop
```

- (a) 0 ( )
- (b) 1 ( )
- (c) 3 ( )
- (d) 4 ( )

6. Divide by Zero is an example of \_\_\_\_\_ error.

(a) syntax ( )

(b) execution ( )

(c) logical ( )

(d) exception ( )

7. Which among the following does not come under OOP concept?

(a) Data hiding ( )

(b) Message passing ( )

(c) Platform independent ( )

(d) Data binding ( )

8. Under which concept of OOPS, do base class and derived class relationships come?

(a) Data hiding ( )

(b) Polymorphism ( )

(c) Inheritance ( )

(d) Overloading ( )

9. \_\_\_\_\_ represents the column that uniquely identifies a row in a Table.

(a) Primary key ( )

(b) Foreign key ( )

(c) Data adapter ( )

(d) Data column ( )

10. The file extension for Microsoft Access database is

- (a) xlsx ( )
- (b) docx ( )
- (c) vbp ( )
- (d) accdb ( )

II. State whether the following statements are *True (T)* or *False (F)* by putting a Tick (✓) mark in the brackets provided : 1×5=5

1. The Common Type System (CTS) enables software written in different languages to work together.

( T / F )

2. The interval property must be set to 100 in order to set the timer interval to 1(one) second.

( T / F )

3. In VB programming, a function should always return value.

( T / F )

4. Abstraction is the wrapping up of data member and member functions into a single unit.

( T / F )

5. RichTextbox control can display multiple data in rows and columns from a database.

( T / F )

**SECTION—II**

( Marks : 10 )

**III. Answer the following questions in short :**

2×5=10

1. (a) Write any two features of Microsoft.NET framework.

**OR**

(b) Define variables. Give an example to declare a variable in VB.

2. (a) Define Dialog box in VB. What is the application of Font Dialog box?

**OR**

(b) Name and define any two properties of Panel.

3. (a) Briefly explain the three types of error.

**OR**

(b) What are nested control structures? Give a simple example.

4. (a) Write any two advantages of Object-Oriented Programming.

**OR**

(b) Define methods and properties.

5. (a) What is meant by simple data binding? Name any two controls that are used for simple data binding.

**OR**

(b) What is dataset? Write any two components of dataset.

( PART : B—DESCRIPTIVE )

( Marks : 50 )

IV. Answer the following questions :

10×5=50

1. (a) Explain different components of Microsoft Visual Basic IDE in detail. 10

OR

- (b) Define data type. Explain the different data types that are used in VB. 2+4=6

- (c) Explain with example any four types of comparison operator. 4

2. (a) Write any five properties and events of ComboBox. 5

- (b) Write any five properties and events of TextBox. 5

OR

- (c) Differentiate between radio button and checkbox. 5

- (d) Write any five properties and events of Timer. 5

3. (a) Explain the working of For...Next loop with a simple example. 5

- (b) What are exceptions in VB programming? Explain the four keywords used in handling an exception. 3+2=5

OR

- (c) Explain the working of Select...Case with a simple example. 5

- (d) Define any five VB.Net String functions. 5

4. (a) What is meant by overriding? Explain it with a simple example. 4+2=6

- (b) What is the use of import keyword? Explain its syntax. 2+2=4

OR

- (c) Explain the concept of constructor and destructor with a simple example. 10

5. (a) Explain the ADO.NET architecture with a neat diagram. 10

**OR**

(b) What is data provider? Explain the four objects of data provider.

3+2=5

(c) Write the steps to create report using report wizard.

5

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