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   (   )

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

★ ★ ★