

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
