

2017

( 4th Semester )

**BACHELOR OF COMPUTER APPLICATIONS**

Paper No. : BCA-405

**[ Graphical User Interface Programming (Visual Basic) ]**

( PART : A—OBJECTIVE )

( Marks : 25 )

*The figures in the margin indicate full marks for the questions*

**SECTION—I**

( Marks : 15 )

**I. Choose the correct answer by putting a Tick (✓) mark in the brackets provided : 1×10=10**

**1. A GUI**

- (a) uses buttons, menus and icons ( ✓ )
- (b) should not be too easy for a user to manipulate ( )
- (c) stands for Graphic Use Interaction ( )
- (d) stands for Graphic Use Internet ( )

( 2 )

2. What does IDE stand for?

- (a) Interior Design Environment ( )
- (b) Integrated Design Environment ( )
- (c) Interior Development Environment ( )
- (d) Integrated Development Environment ( ✓ )

3. Which is not a main component of the Visual Studio IDE?

- (a) Solution Explorer ( )
- (b) Toolbox ( )
- (c) Start Menu ( ✓ )
- (d) Properties Window ( )

4. Which database is the ADO.NET SqlConnection object designed for?

- (a) Access ( )
- (b) Microsoft SQL Server ( ✓ )
- (c) MySQL ( )
- (d) Oracle ( )

5. Which is a valid statement for declaring a variable?

- (a) Const Form As Integer ( )
- (b) Const myForm As Integer ( )
- (c) Dim Form As Integer ( )
- (d) Dim myForm As Integer ( ✓ )

6. Which selection process is an example of multiple branches from a single expression?

- (a) If...Then ( )
- (b) Select Case ( )
- (c) Do...Loop ( )
- (d) For...Next ( )

7. A method in a class is

- (a) a subprocedure ( ✓ )
- (b) statement ( )
- (c) an event ( )
- (d) variable ( )

8. What is the extension for a Visual Basic Web form code file?

- (a) .aspx.vb ( ✓ )
- (b) .asp ( )
- (c) .asp.vb ( )
- (d) .aspx ( )

9. A constructor is a special type of

- (a) method ( )
- (b) field ( )
- (c) class ( ✓ )
- (d) property ( )



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10. Which HTML tag creates a link to another browser page?

(a) A href ( ✓ )

(b) A ref ( )

(c) An href ( )

(d) An ref ( )

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

1. A derived class inherits all of the properties of a base class.

( T / F )

2. Anything in VB.NET that has a property or method is an object.

( T / F )

3. Methods are used to represent actions.

( T / F )

4. Visual Basic is not used to create an ASP.NET code file.

( T / F )

5. The test expression of a Select Case evaluated only 1.

( T / F )

( 5 )

SECTION—II

( Marks : 10 )

III. Answer the following questions :

2×5=10

1. What is FOR loop? Write its syntax.

True (T) or  
1×5=5

erties of a

T / F )

roperty or

T / F )

s.

T / F )

ASP.NET

T / F )

evaluated

T / F )

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( 6 )

2. What are methods and events?

3. What  
and



( 7 )

3. What is the difference between DataColumnns  
and DataRows?

( 8 )

4. What is enumerator? Give suitable example.

5. What



( 9 )

5. What are the benefits of ASP.NET Web pages?

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BACHELOR OF COMPUTER APPLICATIONS

Paper No. : BCA-405

[ Graphical User Interface Programming  
(Visual Basic) ]

Full Marks : 75

Time : 3 hours

( PART : B—DESCRIPTIVE )

( Marks : 50 )

*The figures in the margin indicate full marks  
for the questions*

1. (a) Explain the salient features of Visual Basic. 5
- (b) Explain how to create an ASP.NET Web page using suitable example. 5
- Or
- (c) What are different data types in Visual Basic? Explain with suitable example how to declare different variables in VB. 5
- (d) Explain thin-client architecture and server side processing. 5

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( Turn Over )

( 2 )

2. (a) Define Dialog boxes. Write the uses and properties of FontDialog box and ColorDialog box with suitable example. 5

(b) Define Class and Object. Create a simple program to demonstrate the use of Class and Object. 5

Or

(c) What are syntax error and logical error in GUI programming? Write down how to handle exception. 2 3 5

(d) What are public and private access modifiers? Give a suitable example to demonstrate the difference between them. 2 3 5

3. (a) What do you mean by ADO? Explain how to connect database using ADO in VB. 5

(b) What are branching and looping control statements in VB? Write the syntax of the following control structures with suitable example : 5

(i) Select Case...End Select

(ii) If...Then...Else Statements

Or

(c) Define Web form and Windows form with their advantages and disadvantages. 4 5 5

(d) Explain how to connect MS-Access database in VB with suitable example. 2 5



( 3 )

4. (a) What is OOP? Explain the different characteristics of OOP. 5
- (b) What is report? Explain with example how to create report using Report wizard. 5

Or

- (c) Write the function of the following commonly used controls with simple example : 10
- (i) CheckBox 7
  - (ii) DateTimePicker 9
  - (iii) StatusBar
  - (iv) TextBox
  - (v) RadioButton
5. (a) Explain the following access modifiers with simple example : 4
- (i) Imports statement 2
  - (ii) Name space 3
- (b) What is form in GUI programming? 4
- Design a suitable form to demonstrate the uses of different form components like TextBox, Label, Button, ListBox. 2+4=6 5

( 4 )

Or

- (c) Define DataSet and DataReader. 4
- (d) Explain the following : 6
- (i) Common Language Runtime
  - (ii) Common Type System
  - (iii) Common Language Specification

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