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(4th Semester)

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

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. 5

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

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

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

    (ii) DateTimePicker

    (iii) StatusBar

    (iv) TextBox

    (v) RadioButton

5. *(a)* Explain the following access modifiers with simple example : 4

    (i) Imports statement

    (ii) Name space

(b) What is form in GUI programming? Design a suitable form to demonstrate the uses of different form components like TextBox, Label, Button, ListBox. 2+4=6

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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Subject Code : IV/BCA/405

Booklet No. A

Date Stamp ....

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DEGREE 4th Semester

(Arts / Science / Commerce /

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Subject ....

Paper ....

INSTRUCTIONS TO CANDIDATES

1. **The Booklet No. of this script should be quoted in the answer script meant for descriptive type questions and vice versa.**

2. **This paper should be ANSWERED FIRST and submitted within 1 (one) Hour of the commencement of the Examination.**

3. **While answering the questions of this booklet, any cutting, erasing, over-writing or furnishing more than one answer is prohibited. Any rough work, if required, should be done only on the main Answer Book. Instructions given in each question should be followed for answering that question only.**

To be filled in by the Candidate

DEGREE 4th Semester

(Arts / Science / Commerce /

........................) Exam., **2017**

Roll No. ....

Regn. No. ....

Subject ....

Paper ....

Descriptive Type

Booklet No. B ....

Signature of
Scrutiniser(s)

Signature of
Examiner(s)

Signature of
Invigilator(s)

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(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　(　)

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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 ( )

(**3**)

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   (   )

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.

2. What are methods and events?

3. What is the difference between DataColumns and DataRows?

4. What is enumerator? Give suitable example.

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

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