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(CBCS)

(4th Semester)

BACHELOR OF COMPUTER APPLICATIONS

Paper No. : BCA–405

(GUI Programming)

Full Marks : 75

Time : 3 hours

(PART : A—OBJECTIVE)

(Marks : 25)

The figures in the margin indicate full marks for the questions

SECTION—A

(Marks : 15)

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

 (a) Now( ) returns the current system

  (i) date ( ) *(ii)* time ( )

  (iii) date and time ( ) *(iv)* year ( )

 (b) Correct order of precedence of an operators from higher to lower is

  (i) (^), (*, /), (<>, <, ≤, >, ≥), (<<, >>) ( )

  (ii) (^), (<<, >>), (<>, <, ≤, >, ≥), (*, /) ( )

  (iii) (^), (*, /), (<<, >>), (<>, <, ≤, >, ≥) ( )

  (iv) (^), (<>, <, ≤, >, ≥), (*, /), (<<, >>) ( )

1 [*Contd.*

(c) What does IDE stand for?
   (i) Integrated Development Environment   ( )
   (ii) Integrated Design Environment   ( )
   (iii) Interior Development Environment   ( )
   (iv) Interior Design Environment   ( )

(d) ADO stands for
   (i) Active Data Object   ( )
   (ii) ActiveX Data Object   ( )
   (iii) Actual Data Object   ( )
   (iv) Active Date Object   ( )

(e) Which of the following is not a property of Timer?
   (i) Name   ( )   (ii) Enable   ( )
   (iii) Interval   ( )   (iv) Time   ( )

(f) The wrapping up of data and operations/functions (that operate on the data) into a single unit is known as
   (i) abstraction   ( )   (ii) polymorphism   ( )
   (iii) encapsulation   ( )   (iv) inheritance   ( )

(g) The Data Provider in ADO.NET does not include
   (i) connection   ( )   (ii) command   ( )
   (iii) data table   ( )   (iv) All of the above   ( )

(h) Which of the following is not the property of ASP.NET?
   (i) Easily works with ADO.NET using data-binding and page formatting features   ( )
   (ii) Being language-dependent   ( )
   (iii) Based on server side scripting technology   ( )
   (iv) Easily works with ADO.NET using data-binding   ( )

(i) _____ pop ups when a user clicks the right mouse button on a control or window.
   (i) Menu bar   ( )   (ii) Menu editor   ( )
   (iii) PopUp menu   ( )   (iv) Context menu   ( )

(j) The ASP.NET application codes can be written in which of the following languages?
   (i) C#   ( )   (ii) Jscript   ( )
   (iii) Visual Basic.Net   ( )   (iv) All of the above   ( )

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

   (a) The user can select one radio button in a group.   (*T* / *F*)

   (b) ASP.NET works on the top of the HTTP protocol, and uses the HTTP commands.   (*T* / *F*)

   (c) MSIL stands for Microsoft Integrated Language.   (*T* / *F*)

   (d) Variable name must begin and end with a letter.   (*T* / *F*)

   (e) The exit statement allows you to exit permanently from the block of statements in a control structure, from loop, or from procedure.   (*T* / *F*)

SECTION—B

(*Marks* : 10)

Answer the following questions :   2×5=10

   1. What is event driven programming?

   2. Define constant variable. Give example.

   3. Define methods and properties.

   4. What is DataGridViewControl?

   5. Define RequiredField Validator and Validation Summary.

(**PART : B—DESCRIPTIVE**)

(*Marks* : 50)

The figures in the margin indicate full marks for the questions

   1. *(a)* Define operator. Explain in detail the different types of operators with example.   7

   (b) Define scope and lifetime of a variable.   3

OR

   (c) Differentiate between function and sub-procedure.   4

   (d) Explain different components of Visual Studio 2010 IDE.   6

2. *(a)* Write the properties and events of the following :   6
    (i) Combo box
    (ii) Text box
    (iii) Picture box

(b) What is exception? How do you handle exception in Visual Basic?   4

OR

(c) What is menustrip? Write the steps of creating menu in Window application.   5

(d) Define forms. Write the properties and events of form.   5

3. *(a)* Define access modifier. Explain the different types of access modifier in VB.NET.   4

(b) Differentiate between overloading and overriding in an object-oriented programming concept.   6

OR

(c) Define constructor in VB.NET. Explain with example.   4

(d) Define the concept of inheritance and polymorphism in detail.   6

4. *(a)* Explain different types of ADO.NET connection object.   6

(b) How do you bind data to a text box control?   4

OR

(c) Explain the following :   6
    (i) Data set
    (ii) Data view
    (iii) Data adapter

(d) Explain the two types of ADO.NET command object.   4

5. *(a)* Explain different application pieces in ASP.NET pages.   5

(b) Describe the step-by-step deployment of a window application.   5

OR

(c) Explain global.asa and web.config website files.   4

(b) Using Gridview, how do you build a data driven webform?   6

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