REV-01
BCA/01/06

2025/05

SET A

BACHELOR OF COMPUTER APPLICATION
FOURTH SEMESTER (REPEAT)
.NET TECHNOLOGY
BCA-403 (OLD COURSE)

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs. **Full Marks: 70**

(Objective)

Time: 30 mins. **Marks: 20**

Choose the correct answer from the following: ***1×20=20***

1. Using import statement:
   a. Allows references to members of a namespace
   b. Used to reference an external library
   c. Both a & b
   d. It cannot be used in .NET

2. All the HTML Server controls can be accessed through the..... object in ASP.Net.
   a. Request
   b. Response
   c. Component
   d. Init

3. Which of the following method is best suited when aggregate function is used in the SELECT statement?
   a. ExecuteScalar
   b. ExecuteReader
   c. ExecuteNonQuery
   d. ExecuteNonScalar

4. The..... consists of segments of pre-written code called classes that provide many of the functions that are needed for developing .NET applications.
   a. Visual studio.NET
   b. .NET framework class library
   c. Integrated development environment
   d. All of the above

5. In C#, the extension for C# language is.....
   a. .c
   b. .cs
   c. .cpp
   d. .csp

6. ASP.NET validation control handles its validation at.....
   a. Client side only
   b. Server side only
   c. Both a & b
   d. None of the above

7. Every C# statement is terminated by.....
   a. Colon (:)
   b. Semicolon (;)
   c. Comma (,)
   d. Dot(.)

8. The..... is used to create text input of HTML in ASP.Net.
   a. Text
   b. Text area
   c. Text field
   d. Textbox

9. ASP.NET prepares columns and rows automatically with the default option and then displays it with the help of..... control.
   a. Textbox
   b. Button
   c. Combo box
   d. Data grid view

10. VB.Net language supports..... keyword to declare a variable.
    a. Dimension
    b. Datatype
    c. Dim
    d. All of the above

11. One property that applies only to a list box is the .....property.
    a. DropDownStyle
    b. DropDownList
    c. Checked
    d. SelectedIndexChanged

12. What is CTS in .NET?
    a. Defines rules concerning data types
    b. Defines a set of rules for all compilers to generate & manage code for .NET
    c. Describes a set of features that different languages have in common
    d. None of the above

13. "A variable can implicitly convert the data type"- this property will satisfy the condition of:
    a. Option Strict On
    b. Option Strict Off
    c. Option Explicit On
    d. Option Explicit Off

14. C#.Net language supports..... to add a new array in a program code
    a. ()
    b. [ ]
    c. { }
    d. ;

15. In .Net Technology, data is handled through.....which facilitates development of web applications.
    a. RDO
    b. ADO
    c. ADO.NET
    d. Both b & c

16. The..... object is used to fill a DataSet/DataTable with query results in ADO.Net.
    a. DataConnection
    b. DataAdapter
    c. DataTables
    d. DataReader

17. To determine whether a..... is checked or not, the 'checked' property is tested.
    a. Check Box
    b. Radio Button
    c. Both a & b
    d. Text Box

18. In .Net Technology, ...is used to query & write to a database.
    a. Access
    b. Command
    c. Connection object
    d. SQL

19. The..... of operator specifies the direction of the operation to be performed.
    a. Precedence
    b. Associativity
    c. Binary type
    d. Ternary type

20. C# programming language is used to develop:
    a. Web apps
    b. Desktop apps
    c. Mobile apps
    d. All of the above

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Descriptive

Time : 2 hr. 30 mins. **Marks : 50**

[Answer question no.1 & any four (4) from the rest]

1. **Write short notes on:** 5×2=10
   a) Solution Explorer
   b) Properties Window
2. Why are validation controls used in ASP.Net? Explain each type of validation controls used in ASP.Net. 2+8=10
3. Why CTS can be used in any of the programming languages supported by .Net Technology? Write a comparison study between all the data types with CTS. 5+5=10
4. How Common Dialog is used to change the font of a textbox input? Explain with the help of an example. 5+5=10
5. Describe the features of C#.Net. Write a program in C#.Net Windows application to find the square root of a number. 4+6=10
6. a) Write down three differences between ADO and ADO.NET. 3+7=10
   b) What are the benefits of using ADO.NET?
7. What is ODBC Control? How it is useful in Database connectivity? Write a sub procedure in VB.Net to search an item record using item_no using ODBC. 2+2+6=10
8. Explain the characteristic of C# programing language with its advantages and disadvantages. 10

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