

BACHELOR OF COMPUTER APPLICATION
FOURTH SEMESTER
.NET TECHNOLOGY
BCA – 403

(Use Separate Answer Scripts for Objective & Descriptive)

Duration : 3 hrs.

Full Marks : 70

(PART-A: Objective)

Time : 20 min.

Marks : 20

Choose the correct answer from the following:

1X20=20

1. C# runs on the ____.
 - a. .Net Framework
 - b. JVM
 - c. Compiler
 - d. Both b and c
2. "A variable can be declared without specifying its type"-this property will satisfy the condition of-
 - a. Option Strict On
 - b. Option Strict Off
 - c. Option Explicit On
 - d. Option Explicit Off
3. To determine whether a _____ is checked or not, the 'checked' property is tested.
 - a. Group Box
 - b. Radio Button
 - c. Combo Box
 - d. Text Box
4. All the HTML Server controls can be accessed through the _____ object in ASP.Net.
 - a. Request
 - b. Response
 - c. Component
 - d. Init
5. In .Net Technology, data is handled through which facilitates development of web applications.
 - a. DAO
 - b. RDO
 - c. ADO
 - d. ADO.NET
6. 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
7. Choose true/false statements regarding select case-
 - i. Any implicit data type can be used in a select statement.
 - ii. Multiple statements under a single case statement cannot be used.
 - a. i. True, ii. False
 - b. i. False, ii. False
 - c. i. True, ii. True
 - d. i. False, ii. True
8. Which of the following method is best suited when aggregate function is used in the SELECT statement.
 - a. ExecuteScalar
 - b. ExecuteReader
 - c. ExecuteNonQuery
 - d. ExecuteNonQuery

9. ASP.NET prepares columns and rows automatically with the default option and then displays it with the help of _____ control.
- Textbox
 - Button
 - Combo box
 - Data grid view
10. What will be the output of the following code?
- ```
static void Main(string[] args){

 string s1 = "Hello I Love Csharp ";

 Console.WriteLine(Convert.ToChar((s1.IndexOf('I') - s1.IndexOf('l')) *
 s1.IndexOf('p')));

 Console.ReadLine();

}
```
- I
  - Hello I
  - Love
  - H
11. The \_\_\_\_\_ consists of segments of pre-written code called classes that provide many of the functions that are needed for developing .NET applications.
- Visual studio.NET
  - .NET framework class library
  - Integrated development environment
  - All of the above
12. The \_\_\_\_\_ object is used to fill a DataSet/DataTable with query results in ADO.Net.
- DataConnection
  - DataAdapter
  - DataTables
  - DataReader
13. What is String in C# meant for?
- A variable
  - A Class
  - An Array
  - An Object
14. The \_\_\_\_\_ of operator specifies that which operator will be evaluated first and next.
- Precedence
  - Associativity
  - Binary type
  - Ternary type
15. The \_\_\_\_\_ is used to create text input of HTML in ASP.Net.
- Text
  - Text area
  - Text field
  - Textbox
16. In .Net Technology, \_\_\_\_\_ is used to query & write to a database.
- Access
  - Command
  - Connection object
  - SQL

17. 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
18. 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
19. One property that applies only to a combo box is the \_\_\_\_\_ property.
- a. DropDownStyle
  - b. DropDownList
  - c. Checked
  - d. SelectedIndexChanged
20. C# programming language is used to develop \_
- a. Web based Apps
  - b. Desktop Apps
  - c. Mobile Apps
  - d. All the above

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**( PART-B : Descriptive )**

Time : 2 hrs. 40 min.

Marks : 50

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

1. Describe the components of .Net Framework along with a suitable diagram. 10
2. a. How a data grid view is useful in ADO.NET? 2+8=10  
b. Write a sub procedure in VB.NET to display the contents of database in a data grid view in the form.
3. a. What is the base validator class? 2+2+6  
=10  
b. Write down any two properties & methods of base validator class.  
c. Write down all the Validation controls of ASP.Net.
4. a. What are the similarities and differences of Radio Button & Check Box controls? 4+6=10  
b. Write a program to enter the name, course and semester of a student where course is either UG or PG entered in a Check Box and semester is from I to VI entered in a Radio Button. Both course and semester values should be entered using sub-procedure for each. Lastly, display all the entered values in a textbox with a suitable sentence.
5. Explain the characteristic of C# programming language with its advantages and disadvantages. 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. a. Why toolbox plays a very important role in .Net Framework? 2+8=10  
b. Write down about any four controls available in toolbox with a suitable example containing all four controls in it.
8. a. The tax slabs of a country are as follows 5+5=10  
Annual Income Tax  
Up to 2 lakhs No tax  
2-3 lakhs 10 percent of the amount exceeding 2 lakhs  
3-5 lakhs 10,000+20 percent of the amount exceeding 3 lakhs  
5 lakhs 50,000 +30 percent of the amount exceeding 2 lakhs  
  
Write a C# program to implement the above tax slot and also calculate the tax amount in each text slot.  
b. Write a C# program to find out the minimum and maximum number in an array using function.

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