BACHELOR OF COMPUTER APPLICATION
FOURTH SEMESTER
.NET TECHNOLOGY
BCA – 403 [REPEAT]
(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. ExecuteNonScalar

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. 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();

    }

    a. I
    b. Hello I
    c. Love
    d. 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.
    a. Visual studio.NET
    b. .NET framework class library
    c. Integrated development environment
    d. All of the above

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

13. What is String in C# meant for?
    a. A variable
    b. A Class
    c. An Array
    d. An Object

14. The _____ of operator specifies that which operator will be evaluated first and next.
    a. Precedence
    b. Associativity
    c. Binary type
    d. Ternary type

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

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

[2]

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   b. Used to reference an external library
       namespace
    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

== *** ==

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   4+6=10
       controls?

    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# programing language with its advantages   10
    and disadvantages.

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.

== *** ==