

B-137

Code No. : 003-003502

CS-26

BCA – Semester – 5 (CBCS) Examination

October-2012

CS – 26 Programming with C# (New Course)

Time : 2.30 Hours]

[Max. Marks : 70

- Instructions :** (1) There are **three** Questions and **all** questions are compulsory.
(2) Answers of M.C.Q. and all questions must be written in answer sheet only.

Section – I

1. Attempt following M.C.Q. questions : (20)

(1) In which are the syntax you can done a programming in Visual Studio ?

- (a) VB (b) C#
(c) VC++ (d) All of above

(2) Which is the C# Documentary Type Comments ?

- (a) //
(b) /*
*/
(c) /***
*
*/

(d) All of above

(3) Which key is used to execute a step one by one in debug window ?

- (a) F10 (b) F8
(c) F11 (d) F5

(4) Which is not the Console Class Method ?

- (a) Read() (b) ReadKey()
(c) Clear() (d) None

- (5) Which of the following is NOT a namespace in the .NET Framework Class Library ?
- (a) System.Process
 - (b) System.Security
 - (c) System.Threading
 - (d) System.Drawing
- (6) Which of the following statements is correct about an interface used in C#.NET ?
- (a) One class can implement only one interface.
 - (b) In a program if one class implements an interface then no other class in the same program can implement this interface.
 - (c) From two base interfaces a new interface cannot be inherited.
 - (d) Properties can be declared inside an interface.
- (7) Which of the following is NOT a .NET Exception class ?
- (a) Exception
 - (b) StackMemoryException
 - (c) DivideByZeroException
 - (d) InvalidOperationException
- (8) Which of the following statements is correct about an Exception ?
- (a) It occurs during compilation.
 - (b) It occurs during linking.
 - (c) It occurs at run-time.
 - (d) It occurs during Just-In-Time compilation.
- (9) A variable which is declared inside a method is called a _____ variable.
- (a) Serial
 - (b) Local
 - (c) Private
 - (d) Static

(10) Two methods with the same name but with different parameters.

- (a) Overloading
- (b) Loading
- (c) Multiplexing
- (d) Duplexing

(11) If a class is using an interface, it must

- (a) inherit the properties of the interface
- (b) contain the same methods as the interface
- (c) create an interface object
- (d) All of the above

(12) int keyword targets to which .Net type ?

- (a) System.Int8
- (b) System.Int16
- (c) System.Int32
- (d) System.Int64

(13) Which of the following statements is correct ?

- (a) A constructor can be used to set default values and limit instantiation.
- (b) C# provides a copy constructor.
- (c) Destructors are used with classes as well as structures.
- (d) A class can have more than one destructor.

(14) In C#.NET if we do not catch the exception thrown at runtime, then which of the following will catch it ?

- | | |
|--------------|------------|
| (a) Compiler | (b) CLR |
| (c) Linker | (d) Loader |

(15) Which one of the following statements is correct ?

- (a) Array elements can be of integer type only.
- (b) The rank of an Array is the total number of elements it can contain.
- (c) The length of an Array is the number of dimensions in the Array.
- (d) The default value of numeric array elements is zero.

(16) Which of the following statements is correct about namespaces in C#.NET ?

- (a) Namespaces can be nested only up to level 5.
- (b) A namespace cannot be nested.
- (c) There is no limit on the number of levels while nesting namespaces.
- (d) If namespaces are nested, then it is necessary to use using statement while using the elements of the inner namespace.

(17) How many enumerators will exist if four threads are simultaneously working on an ArrayList obj?

- (a) 1
- (b) 3
- (c) 2
- (d) 4

(18) Which of the following is the correct way to create an object of the class Sample ?

- (a) Sample s = new Sample();
- (b) Sample s
- (c) Sample s; s = new Sample();
- (d) s = new Sample();

(19) Which of the following will be the correct output for the C#.NET code snippet given below ?

```
String s1 = "ALL MEN ARE CREATED EQUAL";  
String s2;  
s2 = s1.Substring(12, 3);  
Console.WriteLine(s2);
```

- (a) ARE
- (b) CRE
- (c) / CR
- (d) CREATED

(20) Suppose value of the capacity property of ArrayList Collection is set to 4. What will be the capacity of the Collection on adding fifth element to it ?

- (a) 4
- (b) 8
- (c) 16
- (d) 32

Section – II

2. Attempt following :

(1) Attempt any **three** :

(06)

- (1) Describe (any **two**) : Namespace, Class, Objects.
- (2) What is a Event ? Explain any two events.
- (3) Sealed class v/s Simple Class.
- (4) What is Indexer ? Explain with Indexer Overloading.
- (5) Explain Pointers to arrays, Pointers to structures and Unsafe Compiler.
- (6) What is Delegate ? Explain the types of Delegate.

(2) Attempt any **three** :

(09)

- (1) Explain all Arrays in details with suitable example.
- (2) Difference between process and thread.
- (3) Explain Array list, Bit Array and Stack.
- (4) Explain Generic list, Generic queue, Generic hash set.
- (5) What is Reflection ? Explain with Dynamic loading.
- (6) Explain MsgBox with DialogResult Class with suitable example.

(3) Attempt any **two** :

(10)

- (1) Explain RichTextBox, CheckedListBox, ListView with example.
- (2) Explain TreeView, ImageList, Panel with example.
- (3) Describe The Property and Used of TabControl, ScrollBar, ToolTip, NotifyIcon.
- (4) Give brief details about the ADO.NET Connected & Disconnected Architecture.
- (5) Describe Dataset, DataTable, DataRelation in brief.

3. Attempt following :

(06)

(a) Attempt any **three** :

- (1) Define : DataRow, DataColumn.
- (2) Difference between TextBox & RichTextBox.
- (3) What is Jaggedarray ? Explain its example.
- (4) Explain console Class with any two methods.

- (5) Predict the Output and describe your answer

```
static void Main(string[] args)
{
    int[,] i = new int[2,4] {{5,3,1,4},{11,12,16,26}};
    for (int ii = 1; ii <= 1; ii++)
    {
        for (int jj = 1; jj <= 3; jj++)
        {
            Console.WriteLine("i["+ii+", "+jj+"] => "+i[ii,jj]);
        }
        Console.WriteLine( );
    }
    Console.ReadKey();
}
```

- (6) Which of the following will be the correct output for the C#.NET code snippet given below ? And why describe your answer :

```
String s1 = "Five Star";
String s2 = "FIVE STAR";
int c;
c = s1.CompareTo(s2);
Console.WriteLine(c);
```

- (b) Attempt any **THREE** :

(09)

- (1) Write a program which can insert and delete a record from database.
- (2) Write a program which can search a record on the base of city or name from the database and with the use of Disconnected Architecture.
- (3) Describe the Features of Visual Studio and explain any 4 window in brief.
- (4) Explain LINQ with Dataset Example.
- (5) Describe DataReader, DataAdapter with suitable example.
- (6) Give brief details about Exception Class.

(X)d) Attempt any two :

- (1) Write a program to implement the concept of Multiple inheritance.
 - (2) Write a program for validation user ID, password & conform Password using following validation :
 - (a) Special symbols are not allowed.
 - (b) Password & conform password must be same.
 - (c) Password & conform password having length at-least six digits.
 - (3) Write a program to add unique data in combo box and also remove data from combobox. If user enter duplicate data then display appropriate message.
 - (4) Write a program to generate splash screen like loading process of any software using progress bar control and Timer control.
 - (5) Write a program which select records from database using DataReader class & also display the data in Grid view.
-