

B-137**Code No. : 003-003502****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) CRÉ
  - (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 ArrayList, 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.

(10)



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.
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