.NET cdac Test

1) Which keyword denotes the reference to an object of current class

**a.this()**

b. inIt

c.out

d.none of these

2) int a = 20;

a++;

a += --a;

console.WriteLine(“value of a {0}”,a);

**a. value 41**

b. value 40

c. value 39

d. value 42

3) In which namespace are all collection class located ?

a.system.configuration

**b.system.collection.**

c.system.codeDom

d.system.componentmodel

4) What is true about destuctors ?

a. destuctor cannot be used with structs

**b. you cannot pass arguments to destuctors**

c. destuctor doesn’t have the same name of the class

d. destructor can be overloaded

5) class Test

{

string s = “Test”;

string t = string.copy(s);

Console.writeline ( s== t)

Console.writeline ((object)s == (object)t); }

}

a.True True

**b.True False**

c.False False

d.False True

* String Equality Comparison (==):
  + The first Console.WriteLine(s == t) compares the values of the two strings using the == operator.
  + Since both s and t contain the same characters "Test", the comparison evaluates to True.
  + The == operator only compares the string values, not their reference identities.
* Object Reference Comparison (==):
  + The second Console.WriteLine((object)s == (object)t) explicitly casts the strings to objects and then compares them using the == operator.
  + In this case, the comparison checks for reference equality, meaning it determines whether the two variables refer to the exact same object in memory.
  + Since s and t point to different string objects (even though they have the same content), the comparison evaluates to False.

6) using system

class A

{

Public static int X = B.Y +1;

}

Class B

{

Public static int Y = A.X+1;

Static void Main()

{

Console.writeline (“x = {0}, y = {1} “,A.X,B.Y);

}

}

1 point

a. X =1 Y= 1

**b. X = 2 Y =1**

c. X = 0 Y = 0

d. Will not execute because circular ref in static field initialize

**e. X = 1, Y = 2**

7) Which access specifier can be accessed anywhere in the Assembly but not outside the Assembly?

1 point

**a) internal**

b) public

c) private

d) protected

8) Identify the keyword used to specify that the class cannot participate in inheritance?

1 point

a) abstract

**b) sealed**

c) virtual

d) override

9) using System;

class Program

{

static void Method(int[] num)

{

num[0]=11;

}

static void Main()

{

int[] numbers={1, 2, 3};

Method(numbers);

Console.WriteLine(numbers[0]);

}

}

1 point

**a) 11**

b) 1

c) compilation error at line 2

d) 11 2 3

10) Which of the below option is FALSE related to abstract class?

a) Abstract class can contain constructors

**b) Abstract class can be instantiated**

c) Abstract class can have abstract and non-abstract methods.

11) \_\_\_\_\_\_\_\_\_\_\_ class is used to find out object's metadata i.e, methods, fields, properties at

**a) System.Type**

b) System.Reflection

c) System.Assembly

d) System.String

The correct answer is a) System.Type.

Explanation:

System.Type is the fundamental class in .NET that represents the type of a specific object or data structure. It provides a rich set of methods and properties to inspect and interact with an object's metadata at runtime.

Key capabilities of System.Type:

Get the object's type name

Enumerate its fields, properties, methods, constructors, events, and other members

Access member attributes

Create instances of the type

Invoke methods on instances of the type

Check for inheritance relationships

And more

Incorrect options:

b) System.Reflection: While System.Reflection namespace offers a broader set of tools for runtime type introspection, System.Type is the core class specifically used for examining object metadata.

c) System.Assembly: This class represents a .NET assembly, which is a collection of types and resources. It's not directly used for inspecting individual object metadata.

d) System.String: This class represents text strings and doesn't provide facilities for type introspection.

12) Which of the following statements are TRUE about generics?

a) Generics does not need to perform boxing

**b) Generics does not need to perform unboxing**

c) Explicit typecasting is required in generics

d) a generic declared to hold integer values can hold both integer and string values

13) What will be the output for the following program?

using System;

class StaticDemo

{

private static int number = 100;

static StaticDemo()

{

number = number + 1;

}

public StaticDemo()

{

number = number + 1;

Console.Write(number + " " );

}

}

class NormalConstructionProgram

{

static void Main(string[] args)

{

StaticDemo obj= new StaticDemo();

}

}

a) 100

b) 101

**c) 102**

d) 103

14) Consider the following languages specifications which must be met by a programming component to be re-used across multiple languages:

Instance members must be accessed only with the help of objects

The above specifications is provided by ?

**a) Common Language Specifications(CLS)**

b) Common Type System(CTS)

c) Attributes

d) JIT Compiler

15)

Identify the Reference types ?

(Choose two correct options)

**a) string**

**b) delegate**

c) enum

d) int

16) Method overloading is a concept related to?

[Choose the most appropriate option]

a) dynamic polymorphism

**b) static polymorphism**

c) abstract class

d) encapsulation

17) What will be the output for the following program?

using System;

class StaticDemo

{

private static int number = 100;

static StaticDemo()

{

number = number + 1;

}

public StaticDemo()

{

number = number + 1;

Console.Write(number + " " );

}

}

class NormalConstructionProgram

{

static void Main(string[] args)

{

StaticDemo obj= new StaticDemo();

}

}

a) 100

b) 101

**c) 102**

d) 103

18) Which of the below option is FALSE related to abstract class?

1 point

a) Abstract class can contain constructors

**b) Abstract class can be instantiated**

c) Abstract class can have abstract and non-abstract methods

19) Which of the following LINQ API is used to connect and work with SQLSERVER

Choose most appropriate option

a) LINQ to Objects

**b) LINQ to SQL**

c) LINQ to XML

d) LINQ to Entities

20)Which of Following extension of MVC view when using c# language

1 point

1)**cshtml**

2)vbhtml

3)both

4)None





