

1) Identify the Reference types ?

(Choose two correct options)

a) string

b) delegate

c) enum

d) int

Ans: string, delegate

2) What will the output for the following code ?

```
class SampleClass
{
    public static int GetAdd(int num1,int num2)
    {
        Console.WriteLine("Addition is {0}",(num1+num2));
        return (num1 + num2) / 2;
    }
    public static int GetMul(int Val1,int Val2)
    {
        Console.WriteLine("Multiplication is {0}",(Val1*Val2));
        return (Val1 * Val2) / 2;
    }
}

class Program
{
    delegate int TestDelegate(int n1, int n2);

    static void Main(string[] args)
    {
        TestDelegate testDelegate = null;
```

```

        testDelegate += SampleClass.GetAdd;

        testDelegate += SampleClass.GetMul;

        Console.WriteLine("Final Result {0}",testDelegate(4,4));

        Console.ReadLine();

    }

}

```

Ans: Addition is 8

Multiplication is 16

Final Result 8

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

using System;

class Program

```

{
    static void Main(string[] args)
    {
        string fruit1 = "Banana";

        string fruit2 = fruit1.Replace('a', 'e');

        Console.WriteLine(fruit2);

        Console.ReadLine();

    }

}

```

Ans : Benene

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

using System;

class DynamicDemo

```

{

```

```

static void Main(string[] args)
{
    dynamic val1 = 500;

    dynamic val2 = "jyothi";

    val2 = val1;

    Console.WriteLine("val1={0},val2={1}",val1.GetType(),val2.GetType());

    Console.ReadLine();

}
}

```

Ans : val1=System.Int32,val2=System.Int32

5) The class which doesn't allow objects creation, but represents as parent class of child classes, is known as _____

- a) Static
- b) Sealed
- c) Abstract
- d) Partial

Ans: Abstract

6) Which of the following statements are TRUE about private Assembly?

- a. Application which refers private assembly will have its own copy of the assembly
- b. There will be only one copy of the assembly and it will be stored in Global assembly cache

options:

- a) only a
- b) only b
- c) Both a and b
- d) Neither a nor b

Ans :Both a and b

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

NOTE : Line numbers are only for reference

```
class Program {  
    static void Method(int[] num)//line1  
    {  
        num[0] = 11;  
    }  
    static void Main()  
    {  
        int[] numbers = { 1, 2, 3 };  
        Method(numbers);//line2  
        Console.WriteLine(numbers[0]);  
    }  
}
```

Ans : 11

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

```
using System;  
  
class A  
{  
    public A()  
    {  
        Console.Write("Class A" + " ");  
    }  
}  
  
class B : A  
{  
    public B()  
    {
```

```

        Console.WriteLine("Class B" + " ");
    }
}

class ConstructorChainDemo
{
    public static void Main(string[] args)
    {
        A bobj = new A();
    }
}

```

options:

- a) class A class B
- b) class B class A
- c) class B
- d) class A

Ans: class A

9) 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

Ans: CLS

10) Method overloading is a concept related to?

[Choose the most appropriate option]

- a) dynamic polymorphism
- b) static polymorphism
- c) abstract class
- d) encapsulation

Ans: static polymorphism

11) 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();  
    }  
}
```

options:

- a) 100
- b) 101
- c) 102
- d) 103

Ans: 102

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

[Choose two correct options]

- 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

Ans: Generics does not need to perform boxing

13) _____ 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

Ans: System.Type

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

class Test

```
{  
    int num1 = 10;  
    public Test()  
    {  
        Console.Write(num1 + " ");  
    }  
}
```

```

    public Test(int num2)
    {
        Console.Write(num2);
    }
}

class program
{
    public static void Main()
    {
        Test obj = new Test();
        Test obj1 = new Test(10);
    }
}

```

Ans : 10 10

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

[Choose most appropriate option]

- a) Abstract class can contain constructors
- b) Abstract class can be instantiated
- c) Abstract class can have abstract and non-abstract methods

Ans: Abstract class can be instantiated

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

```

using System.Collections;

using System;

public class program
{
    public static void Main(string[] args)
    {

```



```

ArrayList fruits = new ArrayList(){ "Apple", "Banana", "Orange" };

fruits.Insert(2, "Grapes");

fruits.Add("Bilberry");

foreach(var item in fruits)
{
    Console.WriteLine(item);
}
}

```

Ans : Apple Banana Grapes Orange Bilberry

17) 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]);
    }
}

```

Options:

- a) 11
- b) 1
- c) compilation error at line 2
- d) 11 2 3

Answer: 11

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

a) abstract

b) sealed

c) virtual

d) override

Answer: b) Sealed

19) using System;

public class StaticTest

```
{  
    static int num1=55;  
    public void Display(int num)  
    {  
        num1 += num;  
        Console.WriteLine("Value of num1 is "+ num1);  
    }  
}
```

public class Program

```
{  
    static void Main()  
    {  
        StaticTest obj1= new StaticTest();  
        obj1.Display(10);  
        StaticTest obj2= new StaticTest();  
        obj2.Display(20);  
    }  
}
```

Answer: Value of num1 is 65 Value of num1 is 85

20) using System;

class Program

```
{  
    static void Main()  
    {  
        int[] first = {6, 7};  
        int[] second = {1, 2, 3, 4, 5};  
        second = first;  
        foreach(int j in second)  
        {  
            Console.WriteLine(j);  
        }  
    }  
}
```

Answer: Prints 6 7

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

- a) internal
- b) public
- c) private
- d) protected

Answer: a) internal

22) Which Feature of C# is Demonstrated by the following code ?

using System;

class Employee

```
{  
    int id;
```

```

public int Id
{
    get { return id;}

    internal set { id = value;}
}
}

```

Options:

- a) Automatic properties
- b) Read only property
- c) Abstraction
- d) Asymmetric property

Answer: Asymmetric property

23) Predict the output of the following code:

```

enum Numbers

One=100,

Two, Three

}

class Program

static void Main()

Console.WriteLine((int)Numbers. Three );

```

Answer : 102

24) What will be the output of following code

```

int? num= 100; num= null

Console.WriteLine(num.GetValueOrDefault())

```

Answer: 0(zero)

25) class Program

```

{

```

```

static void Method(int[] num) {
    num[0] = 11
}

static void Main()
{
    Int[] numbers = {1,2,3}

    Method(numbers)

    Console.WriteLine(number[0]);
}}

```

Answer = 1 1

26) using System;

```

class Demo (
    static int x;

    int y

    Demo(){
        X++;

        Y++;

        Console.Write(x + " " + y + " ");
    }

    static void Main(string[] args)
    {
        Demo d1 = new Demo();

        Demo d2 = new Demo();

    }

```

Answer = 1 1 2 1

27) class Program

```

{
static void Main()
{
int first = (6, 7);
int[] second = {1, 2, 3, 4, 5};
second = first;
foreach(int j in second)
{
Console.WriteLine(j);
}}}

```

Answer – 6,7

28) using System:

```

class Program{
void Method(int a, int b, out int c, ref int d)
{
a = a +1;
b= b+ 2;
c = a + b;
d = c -1;
}
static void Main()
{
int first = 10, second =20, third, fourth = 30 ;
Program p = new Program()
p. Method(first, second, out third, ref fourth);
Console.WriteLine("{0} (1) (2) (3), first, second,third, fourth);
}}

```

Answer – 10 20 33 32

29) class Test

```
{  
  
int num1 = 10;  
  
public Test()  
{  
  
Console.Write(num1+" ");  
  
}  
  
public Test(int num2)  
{  
  
Console.Write(num2);  
  
}  
  
}  
  
class Program  
{  
  
public static void Main()  
{  
  
Test obj = new Test();  
  
Test obj1 = new Test(10);  
  
}}}
```

Answer – 10 10

30)using System;

Public class StaticTest

```
{  
  
Static int num1=55;  
  
Public void Display(int num)
```

```

{
num1 += num;

Console.WriteLine("Value of num1 is " + num1);
}}

```

Public class Program

```

{
Static void Main()
{
Static void main()
{
StaticTest obj1 = new StaticTest();
Obj1.Display(10);
StaticTest obj2 = new StaticTest();
Obj2.Display(20);
}}

```

Answer – value of num1 is 65 value of num1 is 85

31) using system:

class NamedParameterExample

```

{
static void Method(int num1, int num2, int num3=30)
{
Console.WriteLine("num1={0}, num2={1}, num3={2}", num1, num2, num3);
}

public static void Main()
{
Method(num2: 20, num1: 10, num3:100);
}
}

```



```
}}
```

Answer – num1= 10, num2=20,num3=100

```
32)using System;
```

```
Class DynamicDemo
```

```
{
```

```
Public static void main(string[] args)
```

```
{
```

```
Dynamic val1 =500;
```

```
Dynamic val2="jyothi";
```

```
Val2=val1;
```

```
Console.WriteLine("val1={0},val2={1}",val1.GetType(),val2.GetType());
```

```
}
```

```
}
```

Answer- val1=System.Int32,val2=System.Int32

```
33)using System;
```

```
using System.Collections;
```

```
namespace ConsoleApplicationDemo
```

```
{
```

```
class Program
```

```
{
```

```
static void Main(string[] args)
```

```
{
```

```
ArrayList myList = new ArrayList();
```

```
myList.Add(32);
```

```
myList.Add(12);
```

```
myList.Add(22);
```

```
myList.Sort();
```

```

        for(int index=0; index<myList.Count; index++)
        {
            Console.Write(myList[index] + "\t");

        }

    }

}

```

Answer: 12 22 32

```

34)using System;

namespace Test_App
{
    class SampleClass
    {
        public void GreetUser()
        {
            Console.WriteLine("Hello Customer");
        }

        static void Main(string[] args)
        {
            global::Test_App.SampleClass sc= new SampleClass();

            sc.GreetUser();

            Console.ReadLine();
        }
    }
}

class SampleClass
{

```

```
public void GreetUser()
{
    Console.WriteLine("Hello Premium Customer");
}
}
```

Answer: Hello Customer

35) _____ class is used to find out object's Metadata i.e, methods, fields, properties at runtime

- a) System Type
- b) System Reflection
- c) System Assembly
- d) System String

Answer: System Reflection

36) Which of the following Attribute should be used to indicate the property must NOT be serialized while using .JSON serializer ?

- a) XMLIgnore
- b) IgnoreDataMember
- c) IgnoreProperty
- d) JsonIgnore

Answer: JsonIgnore

37) using System;

public class program

```
{
    public static void Main(string[] args)
    {
        try
        {
            int num1=5;
```

```

Console.WriteLine(num1);

try
{
    int num3= 5;

    int num4= 0;

    int num5= num3/num4;

    Console.WriteLine(num4);
}

catch (DivideByZeroException ex)

{
    Console.WriteLine("Divide by zero Exception");
}

catch (Exception ex)

{
    Console.WriteLine("Inner Catch");
}

}

catch (Exception ex)

{
    Console.WriteLine("Outer Catch");
}

}

}

```

Answer: 5 Divide by Zero Exception

38) Which serialization serializes even private access specifier properties

a) XML

- b) Binary
- c) JSON
- d) None of the given choices

Answer: Binary

39) Method overriding is a concept related to ?

- a) Dynamic Polymorphism
- b) static polymorphism
- c) abstract class
- d) encapsulation

Answer: Dynamic Polymorphism

40) Which of the following is Generic collection ?

- a) List
- b) ArrayList
- c) Hash Table
- d) String Collection

Answer: List

41) Which of the following is FALSE about Interface ?

- a) The methods inside interface are abstract
- b) Interface can have constructors
- c) Interface can contain one or more methods
- d) interface methods by default are public

Answer: Interface can have constructors

42) using System;

int index;

int value = 100;

int[] arr = new int[10];

try{

```

    Console.Write("Enter a number: ");

    index = Convert.ToInt32(Console.ReadLine());

    arr[index]= value;
}

catch (FormatException e)

{

    Console.Write("Bad Format ");

}

catch (IndexOutOfRangeException e)

{

    Console.Write("Index out of bounds ");

}

{

    Console.Write("Remaining program");

}

```

Answer: Bad Format Remaining program

```

43) using System;

class ConstructorDemo

{

    private int number= 300;

    public ConstructorDemo()

    {

        number=number+1;

        Console.Write(number+"\t");

    }

    public ConstructorDemo(int num)

    {

```

```
        number+=num;

        Console.Write(number+"\t");
    }
}

class NormalConstructorProgram
{
    static void Main(string[] args)
    {
        ConstructorDemo obj= new ConstructorDemo();

        ConstructorDemo obj1= new ConstructorDemo(200);
    }
}
```

Answer: 301 500