MS.NET Sample Questions

1. _____parameters allow you to give a method parameter a default value so that you do not have to specify it every time you call the method.
a) Optional
b) Named
c) Out
d) Ref

2. Consider the below scenario :
John is working as software developer for Blue Diamond Corporation ,currently he is developing a web application for one of the leading retail book shop. He is using EF and LINQ to work with databases. He needs to write a LINQ query which will display all the details about books whose 'Price' is greater than 50 and 'QuanitityInStock' should be greater than 100.

Which of the following LINQ expression will best suit his requirement?

a) var result=from b in books
   select b
   where b.QuantityInStock>100 and b.Price>50;
b) var result=from b in books
   where b.QuantityInStock>100 and b.Price>50
   select b ;
c) var result=from books b
   select books
   where b.QuantityInStock>100 and b.Price>50;
d) var result=from books b
   where b.QuantityInStock>100 and b.Price>50
   select books;

3. _____methods are not supported by dynamic type.
a) Anonymous
b) Static
c) Abstract
d) Extension

4. You are developing an ASP.NET MVC application. You create a view that will be returned by action methods in multiple controllers. You need to place the view in the appropriate folder. To which subfolder with the Views folder should you add the view?
a) Shared
b) Master
c) Default
d) None of these

5. What is the output of the following code?

```
class OverLoad{
        public int x;
    int y;
        public int add(int a){

        x=a+1;
        return x;
        }
        public int add(int a,int b){

        x=a+2;
        return x;
        }
    }

    class Program{
        static void Main(string[]args){
                OverLoad obj=new OverLoad();
                OverLoad obj1=new OverLoad();
                int a=0;
                obj.add(6);
                obj1.add(6,2);
                Console.Write(obj.x);
                Console.WriteLine(obj1.x);
        }

    }
```

a) 8   8
b) 0   2
c) 8   10
d) 7   8

6. State whether the following statements about the MSIL are true or false.
   i. The MSIL code includes instructions to load, initialize and invoke methods on objects
   ii. The MSIL code is collected and assembled in the form of byte codes and is converted to a .NET Assembly
a) i-true   ii-false
b) i-false   ii-true
c) i-true   ii-true
d) i-false   ii-false

7. C# treats the multiple catch statements like cases in a _____statement
a) If
b) **Switch**
c) For
d) While

8. How do you get information from a form that is submitted using the POST method?
a) Request.QueryString
b) **Request.Form**
c) Response.Write
d) Response.Writeln

9. What does the following C# code specify?
   object Invoke(object obj, object[ ] parameters)
a) Calling a type using Invoke()
b) The value returned by the invoked method is returned by Invoke()
c) Any arguments that need to be passed to the method are specified in the array parameter
d) **All of the mentioned**

10. What is used in following scenario:
    When working with a query expression, a variable that can store the result of the sub expression in order to reuse it in the upcoming clause
a) **let**
b) var
c) dynamic
d) generic expression

11. Complete the following:
    IsNullOrEmpty() function is used to check whether the specified string is null or an Empty string. A string will be_____if it has not been assigned a value. A string will be Empty if it is assigned _____or _____
a) **null , "", string.Empty**
b) "", null, String.Empty
c) null, string.Empty, " "
d) "", string.empty,null

12. In C# which one of the following modifier do you use in a base class to require any derived class to implement a class member?
a) **abstract**
b) virtual
c) must override
d) sealed

13. Choose the correct statements from the following
a) **Indexers are location indicators**
b) Indexers are used to access class object
c) Indexer is a form of property and works in the same way as a property
d) All of the mentioned

14. Find the error in the below code snippet:

```
class Employee{

        int EmpId;
        public int Employee(){

        EmpId=1001;
        }
}
```

a) No error
b) **Return type is not possible in constructor**
c) Access Specifier is not possible in constructor
d) Constructor must have a different name than class

15. You have to create a collection or Order objects. The collection must meet the following
    requirements:
    -Use Strongly typed members
    -Process Order Objects in first-in-first-out order
    -Store values for each Order Objects
    -Use zero bases indices
    Which collection type must be used to meet all the above requirements?
a) Stack<T>
b) **Queue<T>**
c) LinkedList<T>
d) Dictonary<K,V>

16. The _____keyword is new to C#4.0 ,and is used to tell the compiler that a variable type can
    change or that is not known until runtime.
a) covariance
b) **dynamic**
c) contravariance
d) object

17. Which of the following are valid states of thread?
    1.Unstarted
    2.Runnable(ready to run)

3.Running

4.Not Runnable

5.Dead(terminated)

a) **1,2,3,4,5**

b) 1,2,4,5

c) 1,2,3,5

d) 1,2,3,4

18. What will be the output of the following C# code?

```
class Program{
        static void Main(string[]args){

        int i=5;
        int j;
        method1(ref i);
        method2(out j);
        Console.WriteLine(i+" "+j);
        }
        static void method1(ref int x){

        x=x+x;
        }
        static void method2(out int x){
        x=6;
        x=x*x;
        }

    }
```

a) 36   10

b) **10   36**

c) 0   0

d) 36   0

19. Which component in ASP.NET MVC can be used to pass data between controller to view ?
    (Assume you have to pass current date and time)

a) **ViewData["DateTime"]=DateTime.Now.ToString();**

b) ViewState["DateTime"]=DateTime.Now.ToString();

c) ViewBag["DateTime"]=DateTime.Now.ToString();

d) DataView["DateTime"]=DateTime.Now.ToString();

20. You have declared and event on your class and you want outside users of your class to raise this
    event . What do you do?

a) Add a public method to your class that raises the event

b) Make the event public

c) Use a public delegate instead of an event

d) <mark>Use a custom event accessor to give access to outside users</mark>

21. How to check request coming from which controller using MVC ASP.NET?

a) <mark>var _controller=HttpConext.Current.Request.RequestContext.Values["Controller"].ToString();</mark>

b) var _controller= HttpConext.Current.Request.RequestContext.Routedata.Values["Controller"].ToString();

c) var _controller=RouteData.Values["Controller"].ToString();

d) None of the above

22. List<T>.Contains(T) method is used to check whether an element is in the List<T> or not.The return type is:

a) int

b) <mark>boolean</mark>

c) void

d) var

23. State whether the following statements about the managed and unmanaged code are true or false:

i.managed code is the code that is executed directly by CLR

ii.managed code directly compiles to the machine code and runs on the machine where it has to be compiled

iii.Unmanaged code does not have services such as security or memory management

a) i-true   ii-false   iii-false

b) i-false   ii-true   iii-false

c) <mark>i-true   ii-false   iii-true</mark>

d) i-false   ii-false   iii-true

24. The infrastructure that support dynamic operations at run time is called the _____

a) CLR

b) CTS

c) CLS

d) <mark>DLR</mark>

25. Consider the following code and predict the output:

```
using System;
class ExcDemo3{
        public static void Main(){

        int[ ]numer={4,8,16,32,64,128};
        int[ ]denom={2,0,4,4,0,8};
        for(int i=0;i<numer.Length;i++){

        try{
```

```
                int []div=new int[7];
                div[i]=numer[i]/denom[i];
            }
        catch(DivideByZeroException)
        {
        Console.WriteLine("cannot divide by zero");
        }
        catch(IndexOutOfRangeException)
        {
        Console.WriteLine("");
        }
        }
        Console.Read();
        }
    }
```

a) DivideByZeroException
b) FormatException
c) IndexOutOfBoundsException
d) None of these

26. Inheritance is _____ in nature.
a) Commutative
b) Associative
c) Transitive
d) Iterative

27. What will be the output of the following C# code?
```
static void Main(string []args)
{
        int i,j;
        int[,]arr=new int[3,3];
        for(i=0;i<3;i++){
                for(j=0;j<3;j++){
                        arr[i,j]=i*2+i*2;
                        Console.WriteLine(arr[i,j]);
                }
         Console.ReadLine();
        }
    }
```

a) 0,0,0,4,4,4,8,8,8
b) 4,4,4,8,8,8,12,12,12,12
c) 8,8,8,12,12,12,16,16,16

d) ,0,0,0,1,1,1,2,2,2

28. How do you manage states in ASP.NET MVC application?
a) Application
b) Session
c) Viewbag
d) All of the above

29. Choose the incorrect statement about delegate?
a) Delegates are not type safe
b) Delegates can be used to implement callback notifications
c) Delegate is a user defined type
d) Delegates permits execution of a method in an asynchronous manner

30. What is the correct definition of extension methods?
a) The extension are static methods that allows developers to extend functionality of an existing type without creating a new derived type, recompiling, or otherwise modifying the original type and instance methods on the extended type.
b) The extensions are static methods that allows developers to extend functionality of an existing type
c) The extensions are static methods that allows developers to extend functionality of an existing type and are instance methods
d) None of the above

31. The reason that C# does not support multiple inheritance is because of_____
a) Method collision
b) Name   collision
c) Function collision
d) Interface collision

32. What will be the output of the following C# code snippet?
```
class Program{

static void Main(string[]args){

string[ ]strs={"alpha","beta","gamma"};

var chrs=from str in strs
        let chrArray=str.ToCharArray()
        from ch in chArray
        orderby ch
        select ch;
```

```csharp
Console.WriteLine("The individual character in sorted order:");
foreach(char c in chrs)
        Console.Write(c+" ");
Console.WriteLine();
Console.ReadLine()

    }

    }
```

a) a a l h a b g m m a p e t a
b) a a a a a b e g h l m m p t
c) a g h l m m p t a a a a b e
d) Runtime error

33. _____ensures complete interoperability among applications ,regardless of the language used to create the application
a) CLR
b) CLS
c) CTS
d) FCL

34. Which of the following keyword is used to overload user defined types?
a) op
b) opoverload
c) operator
d) operatoroverload

35. In C# having unreachable code is always an_____
a) Method
b) Function
c) Error
d) Iterative

36. Which operator among the following signifies the destructor operator?
a) ::
b) :
c) ~
d) &

37. The C# compiler used in .NET core is _____
a) Cse.exe
b) Roslyn

c) Typescript

d) Core.exe

38. Valid code for creating a SqlConnection object would be :

a) SqlConnection conn=new SqlConnection("Data Source=(local);Initial Catalog=Nortwind;Integrated Security=SSPI");

b) SqlConnect conn=new SqlConnection("Data Source=(local);Initial Catalog=Nortwind;Integrated Security=SSPI");

c) SqlConnection conn=new SqlConnect("Data Source=(local);Initial Catalog=Nortwind;Integrated Security=SSPI");

d) All of the above

39. Which among the following is not a type of contract in WCF?

a) Service Contract

b) Operation Contract

c) Security Contract

d) None of the above

40. How to print value from Controller to MVC?

a) ViewBag.ECMDetail="my message"; and in view @ViewBag.ECMDetail

b) ViewBag.ECMDetail="my message"; and in view ViewBag.ECMDetail

c) ViewBag.ECMDetail="my message"; and in view ViewBag.Title

d) None of the above