

Microsoft .NET Question Bank

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Frame work

- 1) Choose right option ('s) below statements about the .NET CLR?
- 1. Common Language Runtime provides a language-neutral development and execution environment.
- 2. Common Language Runtime ensures that an application would not be able to access memory that it is not authorized to access.
- 3. Common Language Runtime provides services to run managed applications.
- 4. Common Language Runtime The resources are garbage collected.
- 5. Common Language Runtime provides services to run "unmanaged" applications.
- a. Only 1 and 2
- b. Only 1, 2 and 4
- c. 1, 2, 3, 4
- d. Only 4 and 5



2) What is true aboa. Managed codeb. Managed codec. Managed coded. Managed code	MC) is compiled (MC) where reso (MC) runs on to	I by the JIT(Just ources are Ga op of Windows	rbage Coll	ected(GC)	anguage Runtime (C	LR).
3) Dot Net Framev a. Common langua c. Common langua	age runtime		ibraries		t of class libraries one of above	
4) Which of the fol1. JIT compiler con2. The code compi3. The instructions4. The instructionsa. 1, 2, 3	npiles instruction ler by the JIT co compiled by JIT compiled by JIT	ns into machi mpiler runs u I compilers ar	ne code at nder CLR. e written i	run time. n native code.	Language (IL) code	
5) Which of the fo	•			•		
a. System.Type	b. Syste	em. Parent	С	System.Base	d. System. Ob	ject
6) Code that targe a. unmanaged	ts the Common b. Distributed	Language Rui	ntime is kr c. Native		d. Managed C	ode
Applications an b. It is an environn	ment for develond Web Services nent for develonent for develonent for develonent	ping, building	deployir deploying deploying	g and executing and executing and executing	ng Desktop Application only Web Application Distributed Application Web Services.	ns.
8) How many type	s of JIT compile	rs available ur	nder CLR?			
a. 4	b. 2	c. 1		d.3		
9) Which of the fol a. Managed code i b. Managed code i c. Managed code i d. All of above	s the code that s the code whe	is compiled by re resources a	y the JIT co re Garbag	mpilers. e Collected.		
10) Name Type of a. Private, shared	•	b. Public, բ	orotected a	assembly	c. All the above	d. None
11) In Shared Asse	mbly every proj		ocal copy			



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2) In Private Assembly eve . True	ry project will have b. False	local copy			
3) For shared Assembly yo . True	u have to generate b. False	Strong name	2		
only name of the .net ass	sembly,	•		,	
. System Assembly Cache			-		
16) To create a key pair command is					
a. sn –k	o. sn-k	c. ns –k	d. none		
7) Command to move dll f	ile in shared location	n			
a. gacutil/i dllfilename	b. gc	c. gautyil/	′ I	d. none	
entrypoint .maxstack 3 .locals ([0] int32 ValueOne nt32 ValueTwo, nt32 V_2, nt32 V_3) IL_0000: ldc.i4.s 10 IL_0002: stloc.0 IL_0003: ldc.i4.s 20 IL_0005: stl	e,				
	True 3) For shared Assembly your True 4) Strong Name includes the only name of the onet associated assemblies are included and a purish of the one of the onet association of the one of	a. True b. False 3) For shared Assembly you have to generate b. True b. False 4) Strong Name includes the only name of the .net assembly, culture identity, and a public key token 5) Shared Assemblies are installed at: System Assembly Cache of the Assembly Cache	3) For shared Assembly you have to generate Strong name True b. False 4) Strong Name includes the . only name of the .net assembly, b. only . culture identity, and a public key token d. all t 5) Shared Assemblies are installed at: . System Assembly Cache . Machine Assembly Cache 6) To create a key pair command is a. sn -k b. sn-k c. ns -k 7) Command to move dll file in shared location a. gacutil/i dllfilename b. gc c. gautyil/ entrypoint .maxstack 3 .locals ([0] int32 ValueOne, nt32 V_2, nt32 V_3) IL_0000: ldc.i4.s 10 IL_0002: stloc.0 IL_0003: ldc.i4.s 20	True b. False 3) For shared Assembly you have to generate Strong name True b. False 4) Strong Name includes the . only name of the .net assembly, b. only version number d. all the above 5) Shared Assemblies are installed at: . System Assembly Cache b. Global Assemb d. Windows Assembly Machine Assembly Cache d. Windows Assembly To create a key pair command is a. sn -k b. sn-k c. ns -k d. none 7) Command to move dll file in shared location a. gacutil/i dllfilename b. gc c. gautyil/I entrypoint .maxstack 3 .locals ([0] int32 ValueOne, nt32 ValueTwo, nt32 V_2, nt32 V_3) IL_0000: Idc.i4.s 10 IL_0002: stloc.0 IL_0003: Idc.i4.s 20	

Net frame work

a. MSIL code	b. Metadata	
c. Assembly Manifest	d. Module Manifest	e. C#
2) From which one of the follow a. The system registry d. The global assembly cache	ving locations does the garba b. The thread stack e. The download cache	c. The managed heap



- a. The Common Language Runtime (CLR) and Assemblies specify and enforce versioning rules and allow side-by-side execution of a software component
- **b.** The Common Language Runtime (CLR) only allows a single version of a component to be registered in the Global Assembly Cache (GAC).
- **c.** The Common Language Runtime (CLR) does not allow administrators to change the version of component that an Assembly references externally.
- **d.** The Common Language Runtime (CLR) and Assemblies can only use the version of a component with which they were compiled.
- 4) John wants to look at a human readable representation of the metadata and intermediate language (IL) code contained in a .NET Portable Executable (PE) file. Given the above scenario, what tool from the .NET SDK should John use?
- a. ilasm.exe
- b. ildasm.exe
- c. al.exe
- d. dumpbin.exe
- 5) What is the relationship between Common Type System (CTS) and Common Language Specification (CLS)?
- a. NET Languages each offer a subset of the CTS and a superset of the CLS.
- b. NET Languages each offer a superset of the CTS and a subset of the CLS.
- c. NET Languages each offer either the CTS set or the CLS set.
- d. NET Languages all offer the same superset of the CTS.
- 6) Where is the Class Loader located?
- a. In the Common Language Runtime's (CLR) Virtual Execution Engine
- b. In the .NET source code compiler
- c. In the Portable Executable File
- d. In the host operating system
- e. In the Global Assembly Cache (GAC)
- 7) Which one of the following creates the metadata tables contained in a PE file?
- a. Source code compiler
- b. JIT Compiler
- c. Class Loader
- d. Verifier

- 8) Which one of the following describes the Application Base property?
- a. Source code compiler
- **b. JIT Compiler**
- c. Class Loader
- d. Verifier
- 9) Which one of the following statements is true about MSIL code?
- a. It is source code-specific.
- b. It is architecture-specific.
- c. It is compiled to native code by JIT compilers.
- d. It is only stored in assembly resource files.
- e. It is only found in static assemblies.
- 10) Which one of the following statements is true regarding how the .NET Framework minimizes "DLL Hell"?
- a. It enforces that only one component of a given name can run on a machine at a time.
- b. It only allows multiple versions of a given component to run on a machine at a time if they all are private assemblies.



c. It allows side-by-side	de execution on the s	same mach	ine, at the same time, or	even the same proce	ess, of	
-	any version of the same shared DLL.					
d. It registers all assen		_				
e. It registers all assen	nblies with the Globa	l Assembly	Cache (GA			
11) is collection						
a. Base Class Library	b. File Library	С.	Both a and b are true	d. None of the abo	ve	
	uage runtime can be i	_	as the environment that	manages code execut	ion. It	
a. code compilation			b. memory a	Illocation		
c. thread managemer	nt, and garbage collec	tion	d. All of the	Above		
components can in originally. a. This level of cross-late. This level of cross-late. This level of cross-late. This level of cross-late. A. None of the above 14) Statement A: The A. standards to which B. code successfully contains a standard of the stan	 13) The .NET Framework is designed for cross-language compatibility, which means, simply, that .NET components can interact with each other no matter what supported language they were written in originally. a. This level of cross-language compatibility is possible because of the common language runtime. b. This level of cross-language compatibility is possible because of the common Type System c. This level of cross-language compatibility is possible because of the Common Language Specification d. None of the above 14) Statement A: The Common Language Specification (CLS) defines the minimum A. standards to which .NET language compilers must conform. Statement B: CLS ensures that any source B. code successfully compiled by a .NET compiler can interoperate with the .NET Fram a. Statement A is True b. Statement B is true 					
		C# E	Basic			
1) How many Bytes ar	e stored by 'Long' Da					
a. 8	b. 4	c. 2	d. 1			
u. 0		0. 2	G. 1			
2) Correct Declaration	of Values to variable	s 'a' and 'b'	'?			
a. int a = 32, b = 40.6;			c. int a = 32; int b =	40; d. int a = b :	= 42;	
,	·	·	·	·	·	
 3) Arrange the following datatype in order of increasing magnitude sbyte, short, long, int. a. long < short < int < sbyte b. sbyte < short < int < long 						
c. Short < sbyte < int < long d. short < int < sbyte < long						
of a program?			ng a simple number like 3	5 to improve executio	on speed	
a. sbyte	b. short	c. int	d. long			
·			and 'Int32.Parse ()' is effic			



2) C	onvert.In	t32 () used for dataty	pes and returns	directly '0	' for null string
a. 2		b. Both 1, 2	c. 1	d. None	of the mentioned
6) W	/hat is the	e Size of 'Char' datat	ype?		
a. 8	bit	b. 12 bit	c. 16 bit		d. 20 bit
7) S	elect outp	out for the following	set of code.		
	1. static	void Main(string[] ar	gs)		
	2. {				
	3. int a =	= 5;			
	4. int b =	= 10;			
	5. int c;				
	6. Consc	ole.WriteLine(c = ++ a	a + b ++);		
	7. Conso	ole.WriteLine(b);			
	8. Conso	ole.ReadLine();			
	9. }				
a. 1	1, 10	b. 16, 10	c. 16,	. 11	d. 15, 11
				Enum	
1) W	/hich amo	ong the following car	not be used as a	a datatype	for an enum in C#.NET?
a. sl	nort	b. d	ouble	С	. int
		2) Choose t	he correct outp	out for th	e C#. NET code given below?
	enum d	ays: int			
2.	•				
	sunday				
	monday				
	tuesday	,			
	} Console	e.WriteLine((int)d	ans sundan).		
7. 8.		e.WriteLine((int)d e.WriteLine((int)d			
		e.WriteLine((int)d			
٦.	Consore	* * * *		-2 - 1	d) sunday monday tuesday
		3) <i>Ch</i>	oose the corre	ct output	for given set of code?
		-, =		enum colo	
				2. {	
				3.red,	



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```
4. green,
                      5. blue = 5,
                         6. cyan,
                      7.pink = 10,
                        8. brown
                           9.}
        10.console.writeline((int)color.green);
        11.console.writeline((int)color.brown);
                        a) 2 10
                  b) 2 11 c) 1 11 d) 1 5
4) Correct the output for the C#. NET code given below?
                     1. enum letters
                           2. {
                           3. a.
                           4. b.
                           5. c
                           6.}
                       7. letters l;
                    8.l = letters.a;
       9. Console. writeline(l); advertisements
                        a) - 1
```

Structure d) letters. a

b) 0 c) a

- 1) Which of the following is a correct statement about the C#.NET code given below?
- 1. struct book
- 2. {
- 3. private String name;
- 4. private int pages;
- 5. private Single price;
- 6. }
- 7. book b = new book();
- a. New structure can be inherited from struct book
- b. When the program terminates, variable b will get garbage collected



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- c. The structure variable 'b' will be created on the stack
- d. When the program terminates, variable b will get garbage collected
- 2) Choose the correct statement about structures in C#.NET?
- a. Structures can be declared within a procedure
- b. Structures can implement an interface but they cannot inherit from another structure
- c. Structure members cannot be declared as private
- d. a structure can be empty
- 3) When does a structure variable get destroyed?
- a. When no reference refers to it, it will get garbage collected
- b. Depends on whether it is created using new or without new operator
- c. As variable goes out of the scope
- d. Depends on either we free its memory using free() or delete()

Polymorphisms

- 1) The capability of an object in Csharp to take number of different forms and hence display behaviour as according is known as:
- a. Encapsulation
- b. Polymorphism
- c. Abstraction
- d. None of the mentioned

Inheritance

- 1) Which procedure among the following should be used to implement a 'Is a' or a 'Kind of' relationship between two entities?
- a. Polymorphism

b. Inheritance

- c. Templates
- 2) In Inheritance concept, which of the following members of base class are accessible to derived class members?
- a. Static

- b. protected
- c. private

- d. shared
- 3) which form of inheritance is not supported directly by C# .NET?
- a. Multiple inheritance

b. Multilevel inheritance

c. Single inheritance

- d. Hierarchical inheritance
- 5) If no access modifier for a member of a class is specified, then class member accessibility is defined as?
- a. Public
- b. protected
- c. private

d. internal

```
6) using System;
  class shape
{
  public int H;  public int W;  public shape(int h, int w)
{ H = h;
```



```
W = w;
    public double area()
    { return 0; }
    class rectangle :shape
    { public rectangle(int p, int q) : base(p, q) { } public double area()
      { return H * W;
                        }
    }
  class triangle:shape
  { public triangle(int p, int q) : base(p, q) { }
                                                   public double
            { return (H * W)/2.0;
  }
  class Program
  { static void Main(string[] args)
    { shape s1 = new triangle(5, 5);
Console.WriteLine (s1.area());
                                     shape s2 = new rectangle
             Console.WriteLine(s2.area());
      Console.ReadLine ();
  }
What will be the output
a. 0, 0
                   b. 25,12
                                                 c. 12.00
                                                                        d. None
7) using System; class shape { public
              public int W;
    int H;
        public shape(int h, int w)
        \{ H = h;
          W = w; }
                          public virtual double
    area()
        {
             return 0; }
        class rectangle :shape
        { public rectangle(int p, int q) : base(p, q) { }
                                                          public
    double area()
          { return H * W;
      class triangle:shape
        public triangle(int p, int q) : base(p, q) { }
                                                       public
    double area()
                      { return (H * W)/2.0; }
      }
      class Program
      { static void Main(string[] args)
            shape s1 = new triangle(5, 5);
```



```
Console.WriteLine (s1.area());
                                         shape s2 = new rectangle
   (5, 5);
          Console.WriteLine(s2.area());
          Console.ReadLine ();
        }
                                                            d. None
a. 25,12.00
                      b.12.05,25
                                             c.0,0
8) using System; using System.Collections.Generic;
   class shape { public int H;
                                     public int W;
   public shape(int h, int w)
        \{ H = h; 
          W = w;
                           public virtual double
                     }
   area()
               return 0;
        {
      }
        class rectangle :shape
        { public rectangle(int p, int q) : base(p, q) { }
                                                           public
   override double area()
          { return H * W;
        }
      class triangle:shape
      { public triangle(int p, int q) : base(p, q) { }
                                                       public
   override double area()
          { return (H * W)/2.0;
                                   }
      }
      class Program
      { static void Main(string[] args)
        { shape s1 = new rectangle(5, 5);
   Console.WriteLine (s1.area());
                                         shape s2 = new
   triangle(6, 6);
                         Console.WriteLine(s2.area());
          Console.ReadLine ();
        }
      }
   a. 0, 25
                                             c.25, 18.000000
                                                                           d.0
                      b. 25, 18
   8) using System;
   namespace ConsoleApplication7
   {
     abstract class shape
        public int H;
                         public int W;
```



```
public shape(int h, int w)
    \{ H = h;
      W = w;
                 }
                       public virtual double
area()
    {
          return 0;
  class rectangle :shape
    { public rectangle(int p, int q) : base(p, q) { }
                                                      public
double area()
      { return H * W;
                         }
    }
  class triangle:shape
    public triangle(int p, int q) : base(p, q) { }
                                                   public double
            { return (H * W)/2.0;
area()
  }
  class Program
    static void Main(string[] args)
                                     \{ shape s1 =
new rectangle(5, 5);
                          Console.WriteLine
(s1.area());
                  shape s2 = new triangle (6, 6);
      Console.WriteLine(s2.area());
      Console.ReadLine ();
    } }
a.0,0
                                 c. 15,18.000000
                  b.25,1
                                                               d. none
9) using System; using
System.Collections.Generic;
namespace ConsoleApplication7
{
 abstract class shape { public int H;
public int W;
    public shape(int h, int w)
    \{ H = h;
      W = w; }
                      public abstract
double area(); }
    class rectangle :shape
    { public rectangle(int p, int q) : base(p, q) { }
public override double area()
                               { return H * W;
                                                        }
    }
  class triangle:shape
  { public triangle(int p, int q) : base(p, q) { }
                                                   public
override double area()
      { return (H * W)/2.0;
                              }
  }
```



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Method Overloading

- 1) The process of defining two or more methods within the same class that have same name but different parameters list?
- a) Method overloading
- b) method overriding
- c) Encapsulation
- d) None of the mentioned

- 2) Which of these can be overloaded?
- a) Constructors

- b) Methods
- c) Both a & b
- d) None of the mentioned
- 3) What is the process of defining a method in terms of itself that is a method that calls itself?
- a) Polymorphism
- b) Abstraction
- c) Encapsulation
- d) Recursion

4) What could be the output of the following set of code?

```
1. class Program
```

- 2. {
- 3. static void Main(string[] args)
- 4. {
- Console.WriteLine(vol(10));
- 6. Console.WriteLine(vol(2.5f, 5));
- 7. Console.WriteLine(vol(5l, 4, 5));
- 8. Console.ReadLine();
- 9. }
- 10. static int vol(int x)
- 11. {
- 12. return(x * x * x);
- 13.}
- 14. static float vol(float r, int h)
- 15. {
- return(3.14f * r * r * h);
- 2. }
- 3. static long vol(long l, int b, int h)



```
4. {
    return(l * b * h);
    6. }
    7. }
a) 1000 0 100
                              b) 0 0 100
                                                     c) compile time error
                                                                                    d) 1000 98.125 100
5) What could be the output for the set of code?
    1. class overload
    2. {
    3. public int x;
    4. int y;
    5. public int add(int a)
    6. {
    7. x = a + 1;
    8. return x;
    9. }
    10. public int add(int a, int b)
    11. {
    12. x = a + 2;
    13. return x;
    14.}
    15. }
    16. class Program
    17. {
    18. static void Main(string[] args)
    19. {
    20. overload obj = new overload();
    21. overload obj1 = new overload();
    22. int a = 0;
    23. obj.add(6);
    24. obj1.add(6, 2);
    25. Console.WriteLine(obj.x);
    26. Console.WriteLine(obj1.x);
    27. Console.ReadLine();
    28. }
    29. }
a) 88
                       b) 0 2
                                                     c) 8 10
                                                                                    d) 78
6) What will be the output for the set of code?

    static void Main(string[] args)

    2. {
    3. int i = 5;
```



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```
4. int j = 6;
   5. add(ref i);
   6. add(6);
   7. Console.WriteLine(i);
   Console.ReadLine();
   9. }
   10. static void add(ref int x)
   11. {
   12. x = x * x;
   13.}
   14. static void add(int x)
   15. {
   16. Console.WriteLine(x * x * x);
   17.}
a) Compile time error
                              b) 25 0
                                                     c) 216 0
                                                                                           d) 216 25
```

Over rider

```
4) What will be the output for the given set of code?
class A
{
  public virtual void display()
     Console.WriteLine("A");
1) Which keyword is used to declare a base class method while performing overriding of base class methods?
a) This
                                          c) override
                   b) virtual
                                                                       d) extend
2. The process of defining a method in subclass having same name & type signature as a method in its superclass
is known as?
a) Method overloading
                                  b) Method overriding
                                                                       c) none of the mentioned
3) Which of the given modifiers can be used to prevent Method overriding?
                   b) Constant
                                                 c) Sealed
                                                                              d) final
a) Static
}
class B: A
  public override void display()
    Console.WriteLine(" B ");
}
```



```
class Program
    static void Main(string[] args)
  A obj1 = new A();
  B obj2 = new B();
       Ar;
  r = obj1;
       r.display();
  r = obj2;
       r.display();
       Console.ReadLine();
    }
  }
  a) A, A
                                b) B, B
                                                       c) Compile time error
                                                                                             d) A, B
5) The modifier used to hide the base class methods is?
a) Virtual
                             b) New
                                                                          d) Sealed
                                                    c) Override
  6) What will be the output for the given set of code?
  class a
     public void fun()
       Console.WriteLine("base method");
  }
  class b: a
     public new void fun()
       Console.WriteLine(" derived method ");
  }
  class Program
     static void Main(string[] args)
       b k = new b();
  k.fun();
       Console.ReadLine();
  a) base method
                                                     b) derived method
  c) Code runs successfully prints nothing
                                                     d) Compile time error
```



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```
7) What will be the output for the given set of code?
class A
   public virtual void display()
     Console.WriteLine("A");
  }
}
class B: A
  public override void display()
     Console.WriteLine(" B ");
  }
class Program
  static void Main(string[] args)
A obj1 = new A();
B obj2 = new B();
    Ar;
r = obj1;
    r.display();
r = obj2;
    r.display();
    Console.ReadLine();
  }
}
                       b) B, B
                                               c) Compile time error
                                                                                      d) A, B
a) A, A
```

Constructor Overloading

```
1) What will be the output of the given set of code?
```

```
    class maths
    {
    public int length;
    public int breadth;
    public maths(int x, int y)
    {
    length = x;
    breadth = y;
```



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```
Console.WriteLine(x + y);
   10.}
   11. public maths(double x, int y)
   12. {
   13. length = (int)x;
   14. breadth = y;
   15. Console.WriteLine(x * y);
   16.}
   17. }
   18. class Program
   19. {
   20. static void Main(string[] args)
   21. {
   22. maths m = new maths(20, 40);
   23. maths k = new maths(12.0, 12);
   24. Console.ReadLine();
   25. }
   26. }
a) 60, 24
                      b) 60, 0
                                                    c) 60, 144
                                                                                  d) 60, 144.0
2) What will be the output of the given set of code?
   1. class maths
   2. {
   3. public int length;
   4. public int breadth;
   5. public maths(int x)
   6. {
   7. length = x + 1;
   8. }
   9. public maths(int x, int y)
   10. {
   11. length = x + 2;
   12.}
   13. }
   14. class Program
   15. {
   16. static void Main(string[] args)
   17. {
   18. maths m = new maths(6);
   19. maths k = new maths(6, 2);
   Console.WriteLine(m.length);
```

21. Console.WriteLine(k.length);

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```
22. Console.ReadLine();
   23.}
   24. }
                              b) 0, 2
                                                    c) 8, 10
                                                                                   d) 7, 8
a) 8, 8
3) What will be the output of the given set of code?
   1. class maths
   2. {
   3. int i;
   4. public maths(int x)
   5. {
   6. i = x;
   7. Console.WriteLine("hello:");
   8. }
   9. }
   10. class maths1: maths
   11. {
   12. public maths1(int x):base(x)
   14. Console.WriteLine("bye");
   15.}
   16. }
   17. class Program
   18. {
   19. static void Main(string[] args) 20. {
   21. maths1 k = new maths1(12);
   22. Console.ReadLine();
   23.}
   24. }
a) hello bye
                              b) 12 hello
                                                    `c) bye 12
                                                                                   d) Compile time error
```

Property getset

- 1) Select the correct statement about properties of read and write in C#.NET?
- a) A property can simultaneously be read or write only
- b) A property can be either read only or write only
- c) A write only property will only have get accessor
- d) A read only property will only have set accessor
- 2) What will be the output of the following snippet of code?
- 1. class number
- 2. {



16. number p = new number();

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```
3. int length = 50;
 4. public int number1
 5. {
 6. get
  7. {
  8. return length;
    9. }
    10. set
    11. {
    12. length = value;
    13. } 14. }
    15. }
    16. class Program
    18. public static void Main(string[] args)
    19. {
    20. number p = new number();
    21. p.number1 = p.number1 + 40;
    22. int k = p.number1 * 3 / 9;
    23. Console.WriteLine(k);
    24. Console.ReadLine();
    25. }
    26.}
a) 0
                              b) 180
                                                     c) 30
                                                                                   d) Compile time error
3) What will be the output of the following snippet of code?
    1. class number
    2. {
    3. int length = 60;
    4. public int number1
    5. {
    6. get
    7. {
    8. return length;
    9. }
    10. }
    11.}
    12. class Program
    13. {
    14. public static void Main(string[] args)
    15. {
```



```
17. int l;
   18. l = p.number1 + 40;
   19. int k = 1 * 3 / 4;
   20. Console.WriteLine(k);
   21. Console.ReadLine();
   22. }
   23. }
a) 30
                             b) 75
                                                         c) 80
                                                                                       d) 0
4) What will be the output of following snippet of code?
   1. class number
   2. {
   3. private int num1;
   4. private int num2;
   5. public int anumber
   6. { get
   7. {
               return num1;
                                 }
   8. set
   9. {
               num1 = value;
                                 }
   10.}
   11. public int anumber1
   12. {
   13. get
   14. {
           return num2;
                             }
   15. set
   16. { num2 = value;
                             }
   17. }
   18. }
   19. class Program
   20. {
   21. public static void Main(string[] args)
   22. {
   23. number p = new number();
   24. p.anumber = 20;
   25. number k = new number();
   26. k.anumber1 = 40;
   1. int m = p.anumber;
   2. int t = k.anumber1;
   3. int r = p.anumber + k.anumber1;
   Console.WriteLine("number = " +m);
   Console.WriteLine("number = " +t);
   Console.WriteLine("sum = " +r);
```



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7.	Console.ReadLine();
	_

8. }
 9. }

a) 0 b) Compile time error

c) 60

d) none of the above mentioned

- 5) Consider a class maths and we had a property called as sum.b is a reference to a maths object and we want the statement b.sum = 10 to fail.Which of the following is the correct solution to ensure this functionality?
- a) Declare sum property with both get and set accessors
- b) Declare sum property with only get accessor
- c) Declare sum property with get, set and normal accessors
- d) None of the mentioned
- 6) Consider a class maths and we had a property called as sum. b which is the reference to a maths object and we want the statement Console. WriteLine (b.sum) to fail. Which among the following is the correct solution to ensure this functionality?
- a) Declares sum property with only get accessor
- b) Declares sum property with only set accessor
- c) Declares sum property with both set and get accessor
- d) Declares sum property with both set, get and normal accessor
- 7. Consider a class maths and we had a property called as sum.b is a reference to a maths object and we want the code below to work. Which is the correct solution to ensure this functionality? b. maths = 10; Console. WriteLine(b.maths);
- a) Declare maths property with get and set accessors
- **b)** Declare maths property with only get accessors
- c) Declare maths property with only set accessors
- d) Declare maths property with only get, set and normal accessors

Interface

- 1) Which statement correctly defines Interfaces in C#.NET?
- a) Interfaces cannot be inherited
- b) Interfaces consists of data static in nature and static methods
- c) Interfaces consists of only method declaration
- d) None of the mentioned
- 2) A class consists of two interfaces with each interface consisting of three methods. The class had no instance data. Which of the following indicates the correct size of object created from this class?
- a) 12 bytes

- b) 16 bytes
- c) 0 bytes

d) 24 bytes

- 3) Select the correct statement among the given statements?
- a) One class could implement only one interface
- b) Properties could be declared inside an interface



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- c) Interfaces cannot be inherited
- d) None of the above mentioned
- 4) Which of the following is the correct way of implementing an interface addition by class maths?
- a) class maths : addition {}

b) class maths implements addition {}

c) class maths imports addition {}

d) None of the mentioned

- 5) Does C#.NET support partial implementation of interfaces?
- a) True
- b) False
- c) Can't Say
- d) None of the above mentioned
- 6) Access specifiers which can be used for an interface are?
- a) Public
- b) Protected
- c) Private
- d) All of the mentioned

```
7) using System;
interface I1
{ void A();
} interface I2 { void A();
} class C: I1, I2
                                        public
void A()
  {
    Console.WriteLine("C.A()");
  }
}
Class entry
{ static void main(){
C c = new C();
11 i1 = (11)c;
12 i2 = (12)c;
c.A();
I1.A();
12.A();
What will be the output of the program.
```

A. C.A() C.A() A()

```
B. c.A(); i2.A(); i1.A();
```

C.Error

D. None



```
8) using System;
interface I1
{ void A(); } interface I2 { void A(); }
class C: I1, I2 { public void A()
Console.WriteLine("C.A()");
void I1.A()
  { Console.WriteLine("I1.A()"); }
}
Class entry
{ static void main(){
C c = new C();
c.A(); 12 i2 = c;
c.A();}}
a. C.A(),C.A()
                        b. C.A(),I1.A()
                                                c.l1.A(),C.A()
                                                                        d. None Q8
9) using System;
interface I1
{ void A();} interface I2
{ void A();}
         class
C: I1, I2
{ void I1.A()
  { Console.WriteLine("I1.A()"); }
}
Class entry
{ static void main(){
C c = new C(); c.A();
a. Compile time Error
                                b. I2.A ()
                                                                                        d. none
                                                        c. Run time Error
10) using System;
interface I1
{ void A();} interface I2 { void A();} class
C: I1, I2 { void I2.A()
  { Console.WriteLine("I2.A()"); }
  Void A() { Console.WriteLine("I1.A()");}
}
Class entry
{ static void main(){
C c = new C(); I2 x=new C();
c.A();
x.A();}}
a. I1.A(),I2.A()
                                b. I2.A(),I1.A()
                                                                                d. None
                                                        c. Error
```



```
11) using System;
  interface I1
  { void A();} interface I2 { void
  I1.A();} class
  C: I1, I2
  { void I2.A()
     { Console.WriteLine("I2.A()"); } Void A() {
  Console.WriteLine("I1.A()");}
  }
  Class entry
  { static void main(){
  I1 x=new C(); I2 p=new c(); x.A();
  p.A();
  }}
  a. I1.A(),I2.A()
                                                                                d. None
                                 b.I1.A();
                                                         c. Error
  12) using System; class Test { static void
  Main() {
  Α.
          F();
          F() }} class A { static A() {
  В.
      Console.WriteLine("Init A");
    } public static void F() {
                                 Console.WriteLine("A.F");
    } class B { static B() {
    Console.WriteLine("Init B");
    } public static void F() {
                                Console.WriteLine("B.F");
    }
  }
  What will be the output
  A.Init A A.F Init
  В
  B.F
  B.None
  C. Init B B.F
  Init A
  A.F
  D.Error
   13) Constant variable are by default static
    a. True
                                 b. false
```



	4) Readonly varial a. True		either initialised at tir False	ne of declaration or in constructor	
1	5) Readonly varial	ole must be i	nitialised at time of c	eclaration	
a	. true	b.	false		
1	6) Readonly varial	ole required	data at compile time		
a	. True	b.	False		
1	7)Const variable r	equired data	at runtime		
а	. True	b.	False		
	8) class program const int a=5;				
	Static void Main()	1			
1	{ program C= new }	program();	Console.WriteLine(î.a);	
a	. Compile t	b.5	c. none	d. run time error	
	9) class program { Static void main() { program C= new Console.WriteLine }	program();			
a	. Compile ti	b.5	c. none	d. run time error	
	0) You cannot dec . True		riable inside method False		
	1) You cannot dec a. true		variable inside meth	od	
			Exc	eption	
1) V	/hich among the f	ollowing is N	OT an exception?		
a) S	ack Overflow		b) <i>i</i>	Arithmetic Overflow or underflow	
c) In	correct Arithmeti	c Expression	d) /	All of the above mentioned	
-	elect the statemer	nts which des	scribe the correct usa	ge of exception handling over conventional error l	handling
a)	As errors can b	e ignored bu	ut exceptions cannot	be ignored	



Remaining program

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b)	-		ation of progra	n's logic from e	error handling logic mal	king software more
	le and maintai					•
۲) ۷۱ C)	l of the above	-	ows guaranteed	clean up in eve	ent of errors under all o	ircumstances
u <i>) A</i> i	i oi tile above	mentioned				
3) Sel	ect the correct	statement about a	n Exception?			
a) It c	ccurs during lo	ading of program		b) It occurs	s during Just-In-Time co	mpilation
c) It o	ccurs at run ti	me		d) All of th	e above mentioned	
4) WI	nich of these ke	eywords is not a pa	rt of exception h	nandling?		
a) Try	,	b) finally	c)	thrown	d) catch	
5) Wl	nich of these ke	eywords must be us	sed to monitor e	exceptions?		
a) try		b) finally	c) throw	d) catc	h	
6) WI	nich of these ke	eywords is used to I	manually throw	an exception?		
a) try		b) finally	c) throw	d) catch		
7)	 class prog { static voic { int i = 5; int v = 40; int[] p = n try { p[i] = v; } catch(Indet) { Console.V } 	I main(string[] args)	otion e) t of bounds");	le:		
	•	be assigned to a[5]				
		vill be : Index out o	f bounds			
	emaining prog					
С) The output v	vill be :				



- d) None of the above mentioned
 - 8) Choose the correct output for the given set of code:
 - 1. static void Main(string[] args)
 - 2. {
 - 3. try
 - 4. {
 - 5. Console.WriteLine("csharp" + " " + 1/Convert.ToInt32(0));
 - 6. }
 - 7. catch(ArithmeticException e)
 - 8. {
 - 9. Console.WriteLine("Java");
 - 10.}
 - Console.ReadLine();
 - 12.}
 - a) csharp
- b) java
- c) Run time error

- d) csharp 0
- 9) Which of the following is the correct statement about exception handling in C#.NET?
- a) Finally clause is compulsory
- b) A program can contain multiple finally clauses
- c) The statement in final clause will get executed no matter whether an exception occurs or not
- d) All of the above mentioned
- 10) Choose the correct output for given set of code:
 - 1. class Program
 - 2. {
 - 3. static void Main(string[] args)
 - 4. {
 - 5. try
 - 6 {
 - 7. Console.WriteLine("csharp" + " " + 1/0);
 - 8. }
 - 9. finally
 - 10. {
 - 11. Console.WriteLine("Java");
 - 12. }
 - 13. Console.ReadLine();
 - 14.}
 - 15.}
- a) csharp 0
- b) Run time Exception generation
- c) Compile time error
- d) Java



type.

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11) What will be	the output of given coo	le snippet?		
1. {				
2. try				
3. {				
4. int []a = {	1, 2, 3, 4, 5};			
5. for (int i =	= 0; i < 7; ++i)			
6. Console.\	WriteLine(a[i]);			
7. }				
8. catch(Ind	lexOutOfRangeExceptio	n e)		
9. {				
10. Console.\	WriteLine("0");			
11. }				
12. Console.F	ReadLine();			
}				
a) 12345	b) 123450	c) 1234500	d) Compile time	eerror
	eption is thrown at run			::lau
a) CLR	b) Operating Syste	em c) Load	er d) Comp	oner
		Basic	C	
1\ n	ons up a list of mothod			of typing the full method
name.	ops up a list of method:	s that can be called	on that object, instead	of typing the full method
a) Intelligence	b) intell	igence	c) goodsense	d) intellisense
	· · · ·	•	as encapsulation inhe	ritence and polimorphism
a. True		b. False		
2) C# is case s	ensitivo languago			
a. True	ensitive language.	b. False		
u. Huc		0. Tuise		
4) We use the	function to wi	rite a string to the so	reen.	
a. Console.Wr	ileln() b. Cons e	ole.WriteLine()	c. Console.Write()	d. Console.PrintLine()
	_ method can by called			
a. Non Static	b. Static	c. All of the above	d.None of th	e Above
6) C# provide	es us with two predefine	ed references types	and .	
a. int ,float		String c		
·	• ,	_	•	
7) In an enun	n type each of the name	e constant should ne	cessarily have an	



a. int	b. double	c. string		
8) A reference	to a reference-type inst	ance requires how ma	ny bytes?	
a. 2 bytes	b. 4 bytes	c.8 bytes	d.16 bytes	
9) In C# <i>,</i> what	character is used to ind	cate a verbatim string	literal?	
a. @	b.! c."	d. #		
b. The convers	oxing? sion of a value type to ar sion of an object instanc sion of a value type to r sion of a reference type	e to a value type. eference type.		
a. It complied b. It translate. It translate. NET app. d. It translate.	olication.	chine language. sembly and uses the C		he machine to execute a he machine to execute a
a. Consistent	f .NET framework is/are programming Model management of resour	b. La	anguage Interopera the above	bility
-	atement is used to repla se b. Switch	•		d.None of the above
14) Which of a. GetType	the following is not a m b.ToStrii			ne
{ int a; a = if(a) System.Con	Лain(string[] args)	•		
a. I can use c# wi	rongly b. I can t	ake chances c	. Runtime Error	d. Compile Time Error



1) To Handel exception in C# you must use

6) delegate int addition(int x, int y); class myclass

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Deligate Lambda

```
a. Try catch block
                              b. Only try
                                                    c. Try – finally
                                                                           d. None
2) All Exceptions derived from
a. Exception class
                              b. Application exception
                                                                    c. System Exception
3) A. An anonymous method cannot access ref or out parameters of the defining method.
  B. An anonymous method cannot have a local variable with the same name as a local
a. Only B is true
                              b. only A is true
                                                            c. none
                                                                           d. both statements are true
4) delegate void CountIt(int end); class
AnonMethDemo3 {
                           static void Main() {
     int result;
CountIt count = delegate (int end) {
int sum = 0;
 for(int i=0; i <= end; i++) {
                                          Console.WriteLine(i);
     sum += i;
return sum; // return a value from an anonymous method
               };
       result = count(3);
       Console.WriteLine("Summation of 3 is " + result);
       }
a. 6
                      b. 0
                                             c. Error
                                                                    d. None
5) delegate int CountIt(int end); class
AnonMethDemo3 {
                           static void Main() {
                                                  int
result;
       CountIt count = delegate (int end) {
         int sum = 0;
        for(int i=0; i <= end; i++) {
       Console.WriteLine(i);
                 sum += i;
                    return sum; // return a value from an anonymous method
               };
       result = count(3);
       Console.WriteLine( result);
       }
       }
a. 1,2,3 6
                                      b. none
                                                                    c. 1,2,3,
```



}

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```
public int add(int p, int q)
        return p + q;
       public int mul(int p, int q)
        return p * q;
     }
     class Program
       static void Main(string[] args)
          myclass m = new myclass();
                                             addition a =delegate(int p,int q){int r; r=p+q;
                    a += delegate(int p, int q) { int r; r = p * q; return r; };
   return r;};
   Console.WriteLine(a.GetInvocationList().Length);
            int invo = a(3, 5);
            Console.WriteLine(invo);
            Console.ReadLine();
       }
     }
  }
   a.2, 15
                          b.15,8
                                                 c. Error
                                                                                d. none
  7) delegate int Incr(int v); class
   SimpleLambdaDemo {
                              static
  void Main() {
    Incr incr = count => count + 2; int x = -5; while(x \le
  0) {
             Console.Write(x + ""); x = incr(x); //
  increase x by 2
  }
  }
                                       C. 5,3,1,
a. -5,-3,-1
                       b. None
                                                         D. Error
   8) deligate for this lambda expression n => n % 2 ==
   a.delegate true deli();
                                                                 c. deligate bool deli();
   c. deligate int deli();
                                                                 d. none
  9). Using system;
  Delegat bool isEven(int x);
  Class myclass
  { public static void Main()
```



```
{
  isEven isEven = n \Rightarrow n \% 2 == 0;
  // Now, use the isEven lambda expression
                                                Console.WriteLine("Use isEven lambda expression:
");
  for(int i=1; i <= 3; i++)
                            if(isEven(i))
Console.WriteLine(i + " is even."); } }
a. 2
               b. none
                                      c. 1,2,3
                                                            d. Error
10) Data written before => is known as
a. input parameter
                              b. output parameter
                                                            c. represent return value
                                                                                                  d. None
                                            Name Method
1) using System; class Program
static void Main(string[] args)
    { mycall("vita"); mycall("vita",55);
Console.ReadLine();
    static void mycall(string message, int age =25)
    Console.WriteLine("{0}", message);
      Console.WriteLine("{0}", age);
    }
a. Vita, 25 ,vita, 55
                              b.Vita,vita,55
                                                     c. Error
                                                                           d.Vita,55,vita,25
2) using System;
  class Program
  {
    static void Main(string[] args)
       DisplayFancyMessage(message: "vita", age: 25,addr: "juhu");
      Console.ReadLine();
    }
    static void DisplayFancyMessage(int age, string message, string addr)
    {
    Console.WriteLine(message);
    Console.WriteLine("{0} {1}",age,addr);
    }
  }
}
```



```
a. vita,25,juhu
                              b. error
                                                    C.juhu,vita,25
                                                                                  d. runtime error
3) using System;
  class Program
    static void Main(string[] args)
      DisplayFancyMessage(message= "vita", age= 25,addr= "juhu");
Console.ReadLine();
    }
    static void DisplayFancyMessage(int age, string message, string addr)
    Console.WriteLine(message);
    Console.WriteLine("{0} {1}",age,addr);
    }
  }
}
a. vita, juhu, 25
                              b. Error
                                                    c. juhu, vita, 25
                                                                                  d. runtime error
4) IClonable interface has abstract method
a. Clone ===clone
                              b. memberwiseclone
                                                           c. both
                                                                                  d. None
5) class Program
  {
    static void Main(string[] args)
      DisplayFancyMessage( "Wow! Very Fancy indeed!", 50, name: "raj");
     DisplayFancyMessage( "geeta", message: "hello",50);
      Console.ReadLine();
    static void DisplayFancyMessage( string message, int number, string name,)
                                                                                            Console.
WriteLine("{0},{1},{2}",number, name, message);
    }
a. Error
                      b.50, geeta, hello
                                                    c.hello,geeta,50
                                                                                  d. none
6) foreach loop internally calling
a. Iclonable
                                                    c. both
                                                                          d. none
                      b. IEnumerable
7) using System; class Program
  {
    static void Main(string[] args)
```



```
EnterLogData(message:"Error",string owner = "Programmer", DateTime timeStamp = DateTime.Now)
      Console.ReadLine();
    }
static void EnterLogData(string message, string owner = "Programmer", DateTime timeStamp =
DateTime.Now)
{
Console.Beep();
Console.WriteLine("{0}", message);
Console.WriteLine("{0}", owner);
Console.WriteLine("{0}", timeStamp);
}
                b. Error, Programmer, 02/06/2015
                                                                         d. Programmer, Error, 02/06/2015
a. Error
                                                      c. none
8) IComparable has abstract method
a. compareTo
                                                                         b. compare
c. comparer
                                                                         d. all the above
9) IComparer has abstract method
a. Clone
                      b. compare
                                            c. comparer
                                                                 d. none
10) Which statement is true
a. when you implement interface and use abstract method you must use public access modifier.
b. when you implement interface and use abstract method you may use public access modifier
a. only A is true
                             b. both are true
                                                          c. only b is true
                                                                                       d. none
11) Which statement is true
A. MemberwiseClone() method copy value type bit by bit and for reference type use shallow copy
B. MemberwiseClone() method copy value type and reference type as shallow copy
a. only b is true
                             b. only a is true
                                                          c. none
                                                                                d. both
12) To short array you have
a. static sort() method in Array class
                                                   c. virtual sort() method in Array class
b. user have to write own algorithm
                                                   d. none
13) What will be the output using System;
   delegate int addition();
  class myclass
        int a, b;
                    public int add()
    {
           return a + b;
    }
    public myclass(int a, int b) { a = a;b = b; }
```



```
class Program
    static void Main(string[] args)
       myclass m = new myclass(6,6);
       addition a=m.add;
                               int r = a();
       Console.WriteLine(r);
       Console.ReadLine();
    }
  }
}
        a. 0
                       b. 12
                                              c. Error
                                                                     d. None
14) using System; delegate int addition();
    class myclass
      {
            int a, b;
                         public int
    add()
        {
                return a + b;
        public myclass(int a, int b) {this. a = a;this.b = b; }
      }
      class Program
      {
        static void Main(string[] args)
           myclass m = new myclass(6,6);
           addition a=m.add;
                                   int r = a();
           Console.WriteLine(r);
           Console.ReadLine();
        }
      }
    }
        a. 12
                       b. None
                                              c. Error
                                                              d. 0
15) delegate int addition(int x,int y);
                                         class
                                                myclass
  { public int add(int p,int q)
    {
            return p + q;
    public int mul(int p,int q)
       return p * q;
    }
```



c. insertion sort algorithm.

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```
}
     class Program
       static void Main(string[] args)
         myclass m = new myclass();
         addition a=m.add;
                                   addition b = m.mul;
  addition tot = a + b;
           int r = tot(3,5);
                                  Console.WriteLine(r);
         Console.ReadLine();
       }
    }
  }
  a. 15
                 b. Error
                                        c. 8, 15
                                                               d. none
  16) deligate is derived from
       System. Deligat
  b. System _MulticastDelegate
   c. none
   d. from both
  17) int invocationCount = d1.GetInvocationList().GetLength(0); the above code assume d1 is
  variable of a type deligate
  a. This method give length of method bind with deligate
  b. This method give list of method
  c. None
  d. This method give list of parameter of method
  18) readonly key are internally static
  a. True
                         b. False
  19) readonly key can not be used in method
  a. true
                         b. False
  20) Which statement is true
  A.as operator is like a cast, if conversion not possible it will return null instead of raising exception
  B as operator is like a cast, if conversion not possible it will raise exception
a. only A
                      b. only B
                                     c. both true
                                                                   d. both false
21) Array.Sort() method use a.
a. Quicksort algorithm.
                                        b. Heapsort algorithm
```

d. all three depend on size of data



22) as operator perfo	rm only conve	rsion			
		a. reference co c. boxing conve	b. nullable d. all the above		
	Assembly Coll Basic				
1) Name Type of asse a. Private , shared as	-	b. Public ,prote	cted assembly	c. All the abo	ve d. None
·	•		•		
2) In Shared Assembly a. True	y every project b. False	will have local c	ору		
3) In Private Assembly a. True	b. False				
4) For shared Assemb a. true	ly you have to b. Fals	_	name		
5) Strong Name include a. only name of the c. culture identity,	e .net assembl	•	o. only version nur d. all the ab		
6) Shared Assemblies	are installed a	t:			
a. System Assembly C	Cache	b. Glob a	al Assembly Cache		
c. Machine Assembly	Cache	d. Wind	ows Assembly Cacl	ne	
7) To create a key pai	r command is				
a. sn –k	b. sn-k	c. ns -k	d. no	one	
8) Command to move a. gacutil/i dllfilenan			c. gautyil/I	d. none	
What are delegatesa. Value Pointer		ction Pointer	c. Pass By R	eference	d. Pass By Value
a. value i olittei	5. 1 d 11		c. r d33 by iv	ciciciicc	a. Fass by value
10) Generics provide storing value typ	•	mance because t	hey do not result ir	n boxing or unbo	xing penalties when
a. True		False			
11) Generics are not a. True		use they can cor False	ntain different type	you specify.	
12) To help overcom	e the limitation	ns of a simple arı	ray, the .NET base (class libraries shi	p with
a. Thread class	b. Col l	ection class	c. None	d. Cor	nnection class
13) Collection classes	s are built to d	•	themselves on the	e fly as you inser	t or remove items
a. True		b. False			



14) Array List is in na	mespace					
a. System	b. System.Collect	ci on c.	System.Colle	ction.Generic	d. none	
15) When creating a Studio.NET creates the analysis of the studios.	• •	al Information	about the ass	• •	file that Visua	al
a. AssemblyInfo.xml	•		blyInfo.cs			
c. AssemblyInformat			blyAttributes.			
16) Which of the follo						
a. array	b. delegate	c. enum	(d. class		
17) What is the differ a. Overridding, same b. Overridding is dyn c. Overridding , same All the above Q18	name with differen amic, overloading i	nt return type s static	and overload			rgument
18) A reference to a	reference-type inst	ance requires	how many hy	rtas?		
a. 2 bytes	b. 4 bytes	c.8 bytes		d. 16 bytes		
a. 2 bytes	b. 4 bytes	c.o bytes	·	3. 10 bytes		
19) Which of the follo	nwing is the C# esc	ane character	for Null?			
a. \n	b. \0	c.\f		d. \v		
u. (II	D. (0	C. (I	·	J. (V		
20) Which keyword is	s used in C# to prev	vent a class fro	m being inhe	rited by another c	:lass?	
a. override	b. protected		_		tInheritable	
	·					
21) C# types are defi	ned in	, organized	by	, compiled int	to	_, and
then grouped int	0					
a. files, modules	, namespaces, asse	mblies				
b. files, namespa	aces, assemblies, m	odules				
c. files, assembli	es, namespaces, m	odules				
d. files, namespa	aces, modules, asso	emblies				
22) What is Boxing?						
a. The conversion o	f a value type to ar	n object instan	ice			
b. The conversion of	f an object instance	to a value typ	e.			
c. The conversion of	f a value type to ref	ference type.				
d. The conversion of	f a reference type t	o a value type				
23) Which of the follo	wing is true for a sp	oecial member	of the class r	namely 'this'		
•	used in a static me			•		
b. this cannot be	used in a class A to	o access a men	nber of class	В		
	ber can never be de				create a class	d. All the
e. None of above	9					



Microsoft .NET Question Bank

ADO _NET

name		or SQL Server, an applic	cation must reference the	
a) System.Data.Client		n.Data.SqlClient		
c) System.Data.Sql	d) None o	of the mentioned		
2)object i	s used to fill a DataSet/D	oataTable with query re	esults in ADO.net.	
a) DataReader	b) Dataset	c) DataAdapter	d) DataTables	
Valid Code for Creating a) SqlConnection conn	ss a SQL Server database g a SqlConnection Object n = new SqlConnection(nitial Catalog=Northwin	t would be :		
b)SqlConnect conn = n "Data Source=(local);Ir	ew SqlConnection(nitial Catalog=Northwind	;Integrated Security=S	SPI");	
c)SqlConnection conn "Data Source=(local);Ir d) All of the mentioned	nitial Catalog=Northwind	l;Integrated Security=S	SPI"); advertisements	
4). Syntax for closing a b) sqlConn.open() and c) sqlConn.Open() and d) None of the mentio	sqlConn.Close() I sqlConn.Close()	ion in ADO.net is : a) so	qlConn.Open() and sqlConn.clos	se()
· ·	is a storage. b. Disconnected	c. polling	d. None	
6) is a 1. DataControler	bridge between a DataS 2. DataCommand	et and data source for 3. DataAda r	retrieving and saving data. Ster 4. None	
	mmand object's Execute ery object's ExecuteQue			
8) When we need to re a. ExecuteReader()		e from the Database,v () c. ExecuteNonQu	which Method is efficient lery() d. ExecuteXmlRea	der()
9) If we are not return	ing any records from the	e database which meth	od is used	



a. ExecuteReader ()	b. ExecuteScalar ()	c. ExecuteScalar ()	d. ExecuteNonQuery()
10) To populate the data sea. GetData()	et, which methord of Do b. FillData()	ataAdapter is used c. FillDataset()	d.Fill()
11) What does ADO stand f a. Advanced Data Object c. ActiveX Directory Object	b. Act	tive Data Objects tiveX Data Objects	
		ASP	
1) What does ASP stand for a. All Standard Pages	? b. Active Server Pag	g es c. A Server Page	d. Active Standard Pages
•	set on a validator contr llidateControl	ol for the validation to work? c. ControlToBind	d. ControlToValidate
 3) What is the Web.config f a. To store the global inform b. To store the global inform c. To configure the web serm d. To configure the web brown 4) What is the file extension 	mation and variable de mation and variable de ver owser		
a. ASP b. AS	SPX c. We	eb d. None of th	ne above
5) The first event triggers in a. Page_Init() b. Page_Init()	n an aspx page is. age_Load()	c. Page_click()	
6) What class does the ASP a. System.Web.UI.Page c. System.Web.GUI.Page	b. Sy	nherit from by default? estem.Web.UI.Form estem.Web.Form	
7) We can manage states in a. Session Objects	asp.net application us b. Application Object	=	d. All of the abov e
8) Caching type supported a. Output Caching	•	c. a and b	d. none of the above
9) What is used to validate a. Extended expressions c. Regular expressions	b. B a	asic expressions	
10) An alternative way of d	isnlaving text on weh n	nage using	



a. asp:label	b. asp:listite	m	c. asp:button		
11) Default Session da a. StateServer	ta is stored in ASP.No b. Session Ob		c. InProcess	d. all of the above	
12) How do you get int a. Request.QueryString			= .	method? d. Response.writeln	
13) Which object can ha. Application object	• •			d. Server object	
14) Which of the followa. Session object	=	-	ne state of the client? c. Response object		
15) Which of the follow a. RegularExpressionV c. equals() method	=	b. Co r	two fields are equal? npareValidator quiredFieldValidator		
16) Which of the follow	wing transfer executi	ion directly to a	nother page?		
a. Server.Transfer	b. Response.	Redirect	c. Both A. and B.	d. None of the Above	
17) The type of code for a. Server-side code	ound in Code-Behind b. Client-side	·	c. Both A. and B.	d. None of the above	
18) When an .aspx pag	ge is requested from	the web server	, the out put will be re	endered to browser in	
a. HTML	b. XML	c. WML	d. JSP		
 19) Which of the following is true? a. IsPostBack is a method of System.UI.Web.Page class b. IsPostBack is a method of System.Web.UI.Page class c. IsPostBack is a readonly property of System.Web.UI.Page class 					
20) Does the EnableViewState allows the page to save the users input on a form? a. Yes b. No					
21) Explain the significReturns the Virtual Partb. Maps the specified vc. Returns the physicalAll the above	th of the web folder virtual path to Physic	cal path	u al specified path d.		
22) By default, ASP.NE	T store SessionIDs in b. Cache		d. Global var	riable	



1) Which of the following is True?

a. Entity Framework is an ORM framework.

b. Entity Framework is an open source ORM framework.

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Microsoft .NET Question Bank

ENTITY

c. Entity Framework is da				
d. Entity Framework is ob				
2) A pattern of loading re the query is called:	lated data where a q	uery for one type of e	entity also load	ds related entities as part of
a. Lazy loading	b. Eager loading	c. Explic	it loading	d. Quick Loading
3) Which of the following	development approa	aches are supported i	n Entity Frame	ework?
a. Code First b.	Database First	c. Model First		d. All of the above
4) What window in Visua	l Studio display CSDL,	, MSL and SSDL of Ent	ity Framework	?
a. Model windowWhich of the following is	b. Model Browser TRUE?	c. EDM De s	signer	d. Solution Explorer 5)
a. DbContext can not be		proach		
b. ObjectContext is a wra				
c. DbContext is a wrappe				
d. DbContext is a sealed of	class which cannot be	e override.		
6) CSDL stands for				
a. Common Schema Defii	nition Language	b. Conceptual S	Schema Defini	tion Language
c. Conceptual Store Defin	ition Language	d. Conceptual S	storage Definit	ion Language
7) Which of the following	query syntax can be	used to query EDM?		
a. LINQ-to-Entity	b. Entity SQ	L c. Native SQL d. A	All of the abov	e
8) An XML-based languag		storage model of an E	Entity Framew	ork application is called
a. SSDL	b. CSDL	c. EDM	d. MSL	
9) An XML-based languag an Entity Framework A		mapping between the	e conceptual n	nodel and storage model of
a. SSDL b. (CSDL c.	. EDM	d. MSL	
10) Which of the followin	g is NOT a type of en	tity?		
a. POCO b.	POCO Proxy	c. EntityObject		d. D: DBSet
11) Which of the followin	g is NOT TRUE about	the Entity Framewor	k?	
a. It automatically general model is changed.	ates the classes from	the model and updat	es these classe	es dynamically when the
b. It takes care of databas	se connectivity.			



c. It provides query syd. It does not provide			ges to the r	nodel's objects.	
12) Which of the follo	wing is responsib	le for change	tracking ma	inagement?	
a. DBContextManager	•	•	ctContextM	_	
c. ObjectStateManage		-	yObjectMan	_	
13) How to disable Laz	zy loading using D	BContext?			
a. myDBContext.Data	base.LazyLoading	Enabled = fals	se;		
b. myDBContext.Conf	iguration.LazyLoa	adingEnabled	l = false;		
c. myDBContext.Lazyl	oadingEnabled =	false;			
d. myDBContext.Stude	ents.LazyLoading	Enabled = fals	e;		
14) Which interface you IObjectContextAdapt			ne reference	of ObjectContext f	from DBContext? a.
c. IEntityObjectContex		-	ctContext		
15) An API that can be	used to configur	e a Code First	model is ca	alled:	
a. Fluent API	b. CLR API	c. POCO		d. T4 Template	
				·	
		Ŋ	ИVС		
1) MVC stands for					
a. Model, Vision & Co		b. Mo	odel, View 8	k Controller	
c. Model, ViewData &			odel, Data 8		
2) Which of following	is TRUE?				
a. The controller redir	ects incoming red	quest to mode	el.		
b. The controller exec	utes an incoming	request.			
c. The controller cont	rols the data.				
d. The controller rend	er html to view.				
3) The model is a	_·				
a. Shape of data	b. Html co	ontent	c. Co	llection of data	d. Type of data.
4) Which of the follow	ving is a type of vi	ew in MVC?			
a. Partial view	b. Executa	able view	c. Da	ita view	d. Designer view
5) Which of the follow	=				
a. ActionName	b. NonAct	tion	c. Ac	tionVerbs	d. All of the above
6) Which is the defaul	-				
a. HttpPost	b. HttpGe	t (c. HttpPut	d. HttpD	elete



a. cshtml	b. vbhtml	• •	rtea in ivive?	d. All of the abo	.vo
a. CSIICIII	D. VOIICIIII	c. aspx	•	d. All of the abo	ve
8) HtmlHelper class _	•				
a. Generates html ele	ements		b. Generates h	ntml view	
c. Generates html he	lp file		d. Generates r	nodel data	
9) attributes ca	an be used for data	validation	in MVC.		
a. DataAnnotations			c. DataModel	d.	. HtmlHelper
					·
10) Which of the follo	_		•		
a. Partial view	b. Html View	-	out view	d. Razor	view
11) How to transfer d					
a. Using model object	t b. Using Vie	ewBag	c. Usin	g ViewData	d. All of the above
12) TempData is usef	ulto				
a. Transfer data from					
b. Transfer data from		or nago			
c. Transfer data from					
d. Store data perman		JIIEI			
u. Store data perman	entry.				
13) What is action filt	ers?				
a. Action filter execu	tes before and after	r action m	ethod executes	S .	
b. Action filter execut	es before action me	ethod exec	cutes.		
c. Action filter execut	es after action meth	nod execu	tes.		
d. Action filter execut	es parallel to action:	method.			
14) Bundling allows _					
a. Loading of multiple		auest	b. Loading of r	multiple view files	s in single request.
c. Loading of caching	•	-	_	•	es in single request.
>					
15) Which of the follo	_	ute patter			
a."/{action}/{controll				ntroller}/{id}"	
c."{controller}/{action	n}/{id}"		d."{cor	ntroller}/{action}"	
16) Which of the follo	owing default class is	s used to c	onfigure all the	routes in MVC?	
a. FilterConfig	b. RegisterRouteCo	onfig	c. Rou	teConfig	d. MVCRoutes
17) Which of the follospecified property?	owing method of ht	ml helper	generates html	control based on	ı the data type of



a. Html.TextBox	b. Htm	l.Password	c. Html.Editor	d. Html.Display
18) Which is the best A) System.Web.Http(B) Current.Session[" C) Session["LoginID"] D) None	Context.Current LoginID"] =7;	_		
19) RedirectToAction	Permanent() M	ethod for which S	tatus code represents	?
A) 304	B) 302	C) 301	D) 300	E) None
20) RedirectToAction	() Method for w	hich Status code	represents?	
A) 304	B) 302	C) 301	D) 300	E) None
21) What is ActionRe	sult() ?			
A) It is an abstract Cl	ass	B) It is a C	Concrete Class	
C) Both A and B		D) None		
22) What is ViewResu	ult() ?			
A) It is an abstract Cla	ass	B) It is a (Concrete Class	
C) Both A and B		D) None		
23) return View() wo	rks like in ASP.N	let MVC C# as		
A) Server.Transfer()		B) Respor	nse.Redirect()	
C) Both A and B		D) None		
24) RedirectToAction	() works like in A	ASP.Net MVC C# a	ıs	
A) Server.Transfer()		B) Response.Red	irect()	
C) Both A and B		D) None		
25) In which format d	lata can be retu	rn from XML into	table ?	
A) DataSet	B) Datatable	C) A and I	B D)	None
26) Can we use view	state in MVC?			
A) Yes	B) No	C) Both A	& B D)	None
27) What Request Pro	ocessing technic	iue follows ASP.N	et?	
A) Top-Down	B) Down-Up	C) Pipelin		Water fall
28) What is DRY princ	ciple in ASP.Net	?		
A) Don't repeat your	•		Don't revise yourself.	
C) both a and b		,	None	
29) What is default a	uthentication in	Internet Informa	tion Services (IIS)?	
A) Standard User	B) Adm	inistrator	C) Anonymous	D) None
•	,		•	•



Microsoft .NET Question Bank

30) What is the extension of MVC view when using C#?

A) cshtml	B) vbhtml		C) None	D) Both A & B		
31) What is the extens	sion of MVC view whe	an using vh net?				
A) cshtml	B) vbhtml	in damig voluct:	C) None	D) Both A & B		
32) How can you com	ment using Razor Synt	tax?				
A) *@ Comment me *	· @	B) @* Comme	nt me *@			
C) @* Comment me @	_	D) *@ Comme	_			
33) Which Namespace	e is used for Razor Vie	w Engine ?				
A) System.Web.Razoi	•	B) System.Wel	o.Mvc.WebForr	nViewEngine		
C) Both A & B		D) None				
34) Which Namespace	e is used for ASPX Viev	w Engine ?				
A) System.Web.Razor		B) System.We	b.Mvc.WebFor	mViewEngine		
C) Both A & B	C) Both A & B D) None					
35) The Razor View Er	35) The Razor View Engine uses to render server side content.					
A) @	B) <%= %>	C) Both A & B		D) None		
36) The ASPX View En	gine uses to render se	erver side conte	nt.			
A) @	B) <%= %>	C) Both A & B		D) None		
37) Which is more fas	ter between ASPX Vie	_	_	ne.		
A) ASPX View Engine38) Does Razor Engine	B) Razor View e supports for TDD ?	Engine	C) Both A & B	D) None		
A) Yes	B) No	C) None				
39) Does ASPX View E	ngine supports for TD	D?				
A) Yes	B) No	C) None				
40) How to Print value	e from Controller to Vi	iew in MVC ?				
A) ViewBag.ECMDeta	il = "my message"; ar	nd in view @Vie	wBag.ECMDet	ail		
B) ViewBag.ECMDetai	I = "my message"; and	d in view ViewBa	ag.ECMDetail			
B) ViewBag.ECMDetail = "my message"; and in view ViewBag.Title D) None						
41) What are the adva	antages of using ASP.N	NET routing?				
Answer : Clean URLs is now clean URL in MVC			=	technologycrowds.com?abc=10 , rowds.com/abc/10		
		1 //	- 07			

42) What is the significance of ASP.NET routing?

Answer: Default Route Name:

"{controller}/{action}/{id}", // URL with parameters



Microsoft .NET Question Bank

By default routing is defined under Global.asax file. MVC ASP.Net uses routing to map between incoming browser request to controller action methods.

43) Can be it possible to share single view across multiple controllers in MVC?

Answer: We can put the view under shared folder, it will automatically view the across the multiple controllers. 44) Are MVC and Web API merged into one in MVC 6? B) No C) Both A & B A) Yes D) None 45) Does MVC 6 introduced new JSON project based structure? A) Yes B) No C) Both A & B D) None 46) Does MVC 6 allow only save change, hitting the save but then refreshing the browser to reflect changes? A) Yes B) No C) Both A & B D) None 47) Does vNext is now Open Sourced via the .NET Foundation and open to public contributions. B) No A) Yes C) Both A & B D) None 48) Can vNext runs on both Mac and Linux today (Mono Version)? B) No C) Both A & B A) Yes D) None 49) What is the difference between MVC (Model View Controller) and MVP (Model View Presenter)? Answer: MVC controller handles all the requests, MVP handles as the handler and also handles the all requests as well. 50) How does work Viewstart in MVC (ASP.Net)? A) Viestart is used to layout of the application. B) Viewstart is used like Masterpage in traditional forms (ASP.Net pages). C) Viewstart render first in the views. D) A, B and C. E) None 51) Viewstart comes under which folder name? A) Views B) Account C) Shared D) Home 52) Does Viewstart override all Views layout/template under "Views" folder in MVC? A) Yes C) Both A & B D) None B) No 53) What is the name of default Viewstart Page in ASP.Net MVC? A) _ViewStart.cshtml D) None B) _Layout.cshtml C) _Login.cshtml

54) Can we use third party View Engine using ASP.Net MVC Engine?

Yes, below are the top five alternative ASP.Net MVC View Engines.

1. **Spark** (Castle MonoRail framework projects), Open Sourced, it is popular as MVCContrib library.



A) Yes

A) Yes

B) No

B) No

63) Are both TempData/ViewData property of Controller base class in MVC?

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		MICROSOTT .NET C	Question Bank
1. 1.	NHaml works like inli NDjango uses F# Lang	guage.	
1. 1.	Hasic uses VB.Net, XN Bellevue for ASP.NEt	view, It respects HTML class fi	irst.
Answer: Scaff	raffolding using ASP.Ne folding helps us to writ mply even yet complex	e CRUD operations blend using	g Entity Framework, It helps developer
Step 1: Fill Ro Step 2: Fetch Step 3: Reque Step 4: Contr Step 5: Execut Step 6: Result	est context oller instance: it calls (ting Action: It determine	ill hit first). formation about controller and Controller class and method. nes which action to be executed nethod executed and returns b	
A) @Html.Par	•	al View using ASP.Net MVC Ra B) @Html.PartialView("_Partia ")	_
•	mespace is used to "D mponentModel	isplay" in Data Annotation usii B) System.Componen	ng MVC ? tModel.DataAnnotations
C) Both A and	-	D) None	
	mponentModel	d to Data Annotation using MV B) System.Componen D) None	/C ? tModel.DataAnnotations
A) Both (Tem	p Data/ViewData) requ TempData/ViewData)	equire typecasting in MVC? uires type casting to avoid nul does not require type casting.	•
61) Is ViewBag A) Yes	g slower than ViewDat B) No	a in MVC? C) Both A) & B)	D) None
62) Is ViewDa	ta faster than ViewBag	in MVC?	

C) Both A) & B)

C) Both A) & B)

D) None

D) None

to



C) None

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64) Does TempData u A) Yes	sed to pass data from B) No	one page to another page in NC) Both A) & B)	MVC? D) None		
65) Can ASP.Net Web A) Yes	API specialize to XML B) No	or JSON ? C) None			
66) Does Web API (AS A) Yes	SP.Net) supports to noi B) No	n SOAP based like XML or JSO C) None	N ?		
67) Does Web API (AS A) Yes	SP.Net) supports to bot B) No	th version mobile apps and ot C) Both A & B	hers ? D) None		
68) Can ASP.Net Web A) Yes	API, it works HTTP sta B) No	ndard verbs like POST, GET, P C) Both A & B	UT, DELETE (CRUD Operations) ? D) None		
69) Can ASP.Net Web A) Yes	API ability to both self B) No	f hosting (outside of IIS) and II C) None	S?		
70) Can ASP.Net Web A) Yes	API has ability to trans B) No	sport non HTTP protocols like C) None	TCP, UDP, Named Pipes etc?		
 71) What is AuthConfig.cs in ASP.Net MVC? A) AuthConfig.cs is used to configure route settings B) AuthConfig.cs is used to configure security settings including sites oAuth Login. C) None D) All 					
 72) What is BundleConfig.cs in ASP.Net MVC? A) BundleConfig.cs in MVC is used to register filters for different purposes. B) BundleConfig.cs in MVC is used to register bundles used by the bundling and minification, serveral bundles are added by default like jQuery, jQueryUI, jQuery validation, Modernizr, default CSS references. C) All D) None 					
A) FilterConfig.cs is us We can also regist		MVC filters, HandleErrorAttri	bute is registered by default filter.		
A) RouteConfig.cs is u	nfig.cs in ASP.Net MVC used to register MVC of the register global	config statements, route conf	ig.		



Microsoft .NET Question Bank

- 75) What is the difference between HtmlTextbox and HtmlTextboxFor using ASP.Net MVC Razor Engine?
- A) @Html.TextBox is not strongly typed, @Html.TextBoxFor is strongly typed that is why should be use @Html.TextBoxFor in MVC Razor Engine.
- **B)** @Html.TextBox is strongly typed, @Html.TextBoxFor is not strongly typed that is why should be use @Html.TextBox in MVC Razor Engine.
- C) None
- D) Both A and B
- 76) What is the benefits of Html.RenderPartial using ASP.Net MVC Razor Engine? A)
- @Html.RenderPartial Returns response, moreover requires to create action.
- B) @Html.RenderPartial Returns nothing (void), it is faster than @Html.Partial, moreover requires not to create action. C) None
- D) Both A and B
- 77) What is the benefits of Html.Partial using ASP.Net MVC Razor Engine?
- A) @Html.RenderPartial Returns response, moreover requires to create action.
- B) @Html.RenderPartial Returns string value, it is slower than @Html.RenderPartial, moreover requires not to create action.
- C) None
- D) Both A and BSyntax@Html.Partial("_viewname");
- 78) How to check Request coming from which controller using MVC ASP.Net?
- A) var _controller = HttpContext.Current.Request.RequestContext.Values["Controller"].ToString(); B)

var _controller =

 $\label{thm:context.} \textbf{HttpContext.Request.RequestContext.RouteData.Values["Controller"].ToString(); C)} \\$

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

- D) None
- 79) For which ModelState.IsValid Validate?
- A) It checks for Entityframework Model state.
- B) It checks for valid Model State using DataAnnotations.
- C) It checks for SQL database state.
- D) None
- 80) Which Name space is used to create chart using ASP.Net MVC?
- A) using System.Web.MVC;

B) using System.Web.Helpers;

c) using System.Web.Chart; D) All

81) How can we write Chart output to MVC View?

A) .Write(bmp); B) Write("bmp");

C) .Write("bmp");

D) All

82) Which name space using can send email in ASP.Net MVC?

A) using System.Net.Mail;

B) using System.Net;

C) using System.Mail;

D) None



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83) If Razor View Engine write it in Razor View?	need to add JQuery func	ction and o	contain @ special cha	racter then how we can	
A) Replace @ to @@@ (tripple)	B) Rep	lace @ to @@ (doub	ile)	
C) None		D) Botl	D) Both (A & B)		
84) How to set Default Va	•	k using ASI	P.Net MVC?		
A) @Html.HiddenFor(m =	•				
B) @Html.HiddenFor(m	•		})		
C) @Html.Hidden(m => r	n.Name, new { Value = "	Jack"})			
D) None					
85) How to check all erro	ors of Model using ASP.N	et MVC?			
A) var errors = Model.Va	_				
B) var errors = ModelSta	te.SelectMany(v => v.Err	ors);			
C) var errors = ModelSta	te.Values.SelectMany(v	/ => v.Erro	rs);		
D) None					
86) AuthConfig.cs file is u	ınder in which Ann folde	ar 2			
_		:1 :			
A) App_Data	B) App_Start				
87) BundleConfig.cs file i	s under in which App fol	der ?	C) Content	D) Filters	
A) App Data	B) App_Start		o, comen	27	
, ,, _	,				
88) FilterConfig.cs file is	under in which App folde	er?	C) Content	D) Filters	
A) App_Data	B) App_Start				
89. RouteConfig.cs file is	• • • • • • • • • • • • • • • • • • • •		C) Content	D) Filters	
A) App_Data	B) App_Start C) Co	ntent	D) Filters		
90) WebApiConfig.cs file	is under in which Ann fo	older ?			
, .	• • • • • • • • • • • • • • • • • • • •	C) Content		D) Filters	
, 11=	,	,		,	
91) Can you list the main	types of result using ASI	P.Net MV	C?		
There are total 10 main t	ypes of result, ActionRe	sult is mai	in type and others ar	e sub types of results as listed	
below:					
 System.Web.Mvc 					
System.Web.Mvc					
System.Web.Mvc					
System.Web.Mvc System Web.Mvc					
 System.Web.Mvc 	.HttpStatusCodeResult				
 System.Web.Mvc 	•				
 System.Web.Mvc 					
•	.RedirectToRouteResult				

System.Web.Mvc.ViewResultBase

92) Which filter will be execute at first using ASP.Net MVC?



A) Action filters	B) Authorization filte	rs C) Res	ponse filters	D) Exception filters
93) Which filter will b	e execute at last using	ASP.Net MVC		
A) Action filters	B) Authorization filte	rs C) Exc	eption filters	D) Response filters
		WCF		
1 Which of the follow	wing is NOT true?	VVCF		
1. Which of the follow	be consumed by Wind	lows applicatio	inc	
·	be consumed by Web		7113	
	perform calculations	арричаныя		
D) A WCF Service car	•			
2. WCF services can o	communicate with			
A) all programming la		 '		
B) XML				
C) only the languages	s included with Visual S	Studio .NET		
D) multiple platform	s and multiple languag	ges		
3. The standard meth	nod for storing data tha	it can be transf	erred easily from on	e machine or platform to
another is				
A) XML	B) SOAP	C) WSDL	D) WCF	
4. One of the advanta	ages of using	s that data are	transmitted in a tex	t format rather than a binary
format.		_		
A) XML	B) SOAP	C) WSDL	D) WCF	
5. Data that is in	format can pass	through many	, firewalls that	cannot penetrate.
A) binary, text	B) text, binary	C)	SOAP, WCF	D) WCF, SOAP
6 is a pop	oular standard that incl	udes a set of r	ules for handling req	uests and responses
=	s, method names, and	='		
A) XML	B) WCF	C) WSDL	D) SOAP	
				be passed, and the values that
				ption specified in
A) XML	B) SOAP	C) WSDL	D) WCF	
8. Always end your U site rather than a dire		to avoid	an extra trip to the s	erver to determine that it is a
A) hyphen	B) slash	C) backslash	D) double s	lash
9. A resource on the	Web is uniquely identi	fied by its URI,	which means	·



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A) Uniform Resource Iden Uniform Registered Identi	•	Universal Registered Ident Universal Resource Identif	•	
10. To add a WCF Service, menu.	select the solution name	in the Solution Explorer an	d select	from File
A) Add / New Solution		B) Add / New Web Site		
C) Add / New Service		D) Add / New Library		
application to test the serv	vice. You want add an end	dows Communication Foun dpoint in the web.config fil- de in you service element o C. Binding	e of the client ap	plication to
12. A service contract specifies what an endpoint communicates to the outside world. At a more concrete level, it is a statement about a set of specific messages organized into basic message exchange patterns (MEPs), such as request/reply, one-way, and duplex. Which of the following is NOT part of the Service Contract specification:				
A. The data types of messa	ages B.	The specific protocols and	serialization forn	nats C.
The location of the operat	ions D.	The frequency of message	es per second	
their grouping. In Window operations by creating a m	s Communication Founda	ervice contract you usually ation (WCF) applications, denoted the which attribute? A. S	evelopers define	the
C. DataContractAttribute		D. OperationContractAttr	ibute	
	Server Contract. You nov	that contains a wide variet	-	
A. OperationContractAttri	•	B. DataMemberAttribute		
C. DataContractAttribute		D. ServiceContractAttribu	ite	
define a WCF service contracts. V	ract. However, it is recom Vithout an implementatio	g of functionality and, ther imended that you use inter on, interfaces do no more to wing is a benefit of using in	rfaces because th han define a grou	ey directly uping of
A. Service contract interfa	ces can extend any numb	er of other service contrac	t interfaces.	
B. You can modify the imp	lementation of a service	contract by changing the ir	nterface impleme	ntation, while

D. All of these

interfaces.

the service contract remains the same

16. You have created a new class which will be the basis for a Service Contract. You have used

C. A single class can implement any number of service contracts by implementing those service contract



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ServiceContractAttribute and OperationContractAttribute to decorate the class and the methods. Which of the following is NOT an advantage of using classes instead of interfaces for Service Contracts?

A. Speed

B. All of these are disadvantages

C. Simplicity

D. Multiple Inheritance

17. Which of the following is TRUE regarding service operations and references to objects?

A. Objects must be serializable

B. You can't return values from service operations

C. Objects are passed as references

D. You can't pass parameters to service operations

- 18. You've created a new class and decorated it with the DataContractAttribute so that it forms a Data Contract for WCF. This class contains several attributes that you want to make available as part of the Data Contract. Currently these attributes are declared as private. What do you need to do to ensure these attributes are serializable?
- A. Add the DataMemberAttribute and change the type to public
- B. Add the DataContractAttribute to the attribute
- C. Change the type to internal
- D. Add the DataMemberAttribute or change the type to public
- 19. A developer has designed a service that contains a method called TakeAction which is decorated with the following attribute:

[OperationContractAttribute(IsOneWay=true)]

Another client application will invoke the TakeAction operation and continue processing after WCF writes the message to the network. What must the developer of the TakeAction method do to ensure the client action can call this method?

A. Use object as the return type

B. Use FaultException as the return type C.

Remove all parameters from the method signature

D. Use void as the return type

20. The signature of a service operation dictates a certain underlying message exchange pattern (MEP) that can support the data transfer and the features an operation requires. You want to adopt a pattern that supports the sending and receiving of messages by both the service and client. Which patter should you choose?

A. one-way

B. none of these

C. request/reply

D. duplex

21. Study the following line of code:

OperationContext.Current.GetCallbackChannel();

The ICalendarDuplexCallback interface is defined as the CallbackContract property in the Service Contract. In which class should you use this line of code?

A. Client

B. You should never use this

C. Both

D. Service

22. A client application interacts with a new Service that calculates interest rates for the banks customers. The Service Contract contains BasicHttpBinding as the binding type in the endpoint configuration. The service contains some methods that return sensitive information such as customers names and addresses. You want to ensure that these methods are encrypted. What should you do?

A. Set the ProtectionLevel to None in the ServiceContractAttribute

B. Set the ProtectionLevel in the OperationContractAttribute to EncryptAndSign for each of the sensitive methods



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- C. Nothing, all messages will be encrypted and signed already
- D. Set the ProtectionLevel to Sign in the ServiceContractAttribute
- 23. Which of the following is FALSE regarding the WSHttpBinding class?
- A. Provides WS-Addressing

B. Provides un-encrypted messages by default

C. Provides reliable messaging

D. Provides transactions

- 24. In Windows Communication Foundation (WCF) applications, which of the following is FALSE regarding Sessions?
- A. Messages delivered during a session are processed in the order in which they are received
- B. They are explicitly initiated and terminated by the receiving application
- C. There is no general data store associated with a WCF session
- D. D. Sessions correlate a group of messages into a conversation
- 25. The instancing behaviour (set by using the

System.ServiceModel.ServiceBehaviorAttribute.InstanceContextMode property) controls how the InstanceContext is created in response to incoming messages. You have created a new WCF service and set the InstanceContextMode to PerCall. What is the behaviour of the InstanceContext in this mode?

- A. A new InstanceContext is created for each call
- **B.** A new InstanceContext is created for each channel
- C. A new InstanceContext is created for all calls
- **D.** A new InstanceContext is never created
- 26. When configuring a WCF service using Visual Studio, you can use either a Web.config file or an App.config file to specify the settings. The choice of the configuration file name is determined by the hosting environment you choose for the service. Where does the endpoint configuration element lie in a .NET configuration file?
- A. System.ServiceModel bindings endpoint
- B. System.ServiceModel services service endpoint
- C. System.ServiceModel endpoint
- D. System.ServiceModel behaviors behavior endpoint
- 27. The System.ServiceModel.Channels namespace contains the DeliveryFailure enumeration. DeliveryFailure specifies the possible types of delivery failure for a message read from the queue. Which of the following elements is a valid DeliveryFailure?

A. BadSignature

B. AccessDenied

C. ReceiveTimeout

D. All of these

28. Which class in WCF represents the unit of communication between endpoints in a distributed environment?

A. RequestContext

B. Message

C. Binding

D. ChannelBase

28. Windows Communication Formats (WCF) is Microsoft's technology for communicating between applications on the same computer system, on a network, or across the

A. True

B. False

29. It is possible for a single application to be both a client and a service.



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A. True	B. False			
30. WCF cannot communicate A. True	te with other platfor B. False	rms that suppor	t SOAP and simple XML.	
31. An endpoint indicates what A. True	nere messages can b B. False	oe sent (address).	
32. Data that is in binary for A. True	mat can pass throug B. False	h any firewall.		
33. WSDL contains informati the values that are returned A. True			s, the parameters that car	n be passed, and
34. For technical specificatio A. True	ns, the industry star B. False	ndard term URL	is preferred to URI.	
35. The transport protocol u A. True	sed by SOAP is HTTF B. False) .		
36. To rename a Web Service A. True	e you need to chang B. False	e only the name	e in the Solution Explorer.	
37. When a new project is ac A. True	dded to a WCF Servi B. False	ce solution, the	projects are saved indepe	endently.
		Web API		
1. Web API, an object that h a) Model b	andles HTTP reques) Controller	ts is known as a c) Properties	d) Web server	
Web API supports which a) TCP	of the following pro	otocol? c) Soap	d) All of the abov	e
3. Q.12) Web API supports a) JSON b	which of the followi) XML	ng request/resp c) BSON	oonse data formats by defa	
4. Which of the following .Nah. NET 2.0	NET framework supp b) .NET 3.0		c) .NET 3.5	d) .NET 4.0
5. Which of the following statement is TRUE?a) Web API can be configured using web.config.b) Web API can only be configured by code.				

c) Web API can be configured using app.config.



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d) None of the above 6. Web API uses which of the following open-source library for JSON serialization? a) Json.NET b) JsonFormatter.NET c) GetJson.NET d) None of the above 7. Web API controller must be derived from a) Controller class b) ApiController class c) WebApiController class d) WebController class 8. Which of the following types of routing is supported in Web API 2? a) Attribute Routing b) Convention-based Routing c) All of the above d) None of these 9. Which of the following types are valid response types of Web API 2 action method? a) HttpResponseMessage b) IHttpActionResult c) Custom types d) All of the above 10. Web API sends which of the following status code on successful execution? a) 200 b) 201 c) 500 d) 404 11. Which of the following is a formatter class for JSON? a) JsonMediaTypeFormatter b) JsonMediaFormatter c) Json.Net c) None of the above 12. Which of the following property returns all the formatters in Web API? a. GlobalConfiguration.Configuration.JsonFormatter b. Configuration.Formatters c. GlobalConfiguration.Formatters d. GlobalConfiguration.Configuration.Formatters 13. Web API Filters are used ______. a. to add an extra logic before or after action method executes b. to provide authentication and authorization. c. to Launch Web API d. to host Web API 14. Web API extract the values of primitive type parameters of an action method from by default. b) HTTP Header a) HTTP Request Body c) Message Header d) Query String 15. Web API extract the values of complex type parameters of an action method from b) HTTP Header a) HTTP Request Body c) Message Header d) Query String 16. By default, Web API sends HTTP response with which of the following status code for all uncaught exception?

b) 500 - Internal Server Error

a) 404 - Not Found



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c) 204 - No content	d) None o	of the above			
17. Which of the follow a) Mode.Valid c) ModelState.IsV	b) Model	b check the validity of the model in Web API? b) Model.IsValid d) ModelState.Valid			
18. Web API 2 is suppo a) . NET 4.5	orted in b) .NET 4.0	c) .NET 3.5	d) .NET 3.0		
19. Which of the follow	•				

b. Web API can be host in IIS.