

PG DAC Sept 21 Microsoft .NET Question Bank

Contents

Frame work	1
Net frame work	3
C# Basic	5
Enum	6
Polymorphisms	8
Inheritance	8
Over rider	14
Constructor Overloading	16
Property getset	18
Interface	21
Exception	25
Basic C	28
Deligate Lambda	30
Name Method	32
Assembly Coll Basic	37
ADO _NET	39
ASP	40
ENTITY	42
MVC	43
WCF	52

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



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2) What is true abouta. Managed code(No. Managed code(No. Managed code (No. Managed c	1C) is compiled MC) where reso MC) runs on to	by the JIT(Jus ources are Gar p of Windows	bage Colle	cted(GC)	anguage Runtime (C	LR).
3) Dot Net Framewo a. Common languag c. Common languag	ge runtime	l set of class li	braries		of class libraries ne of above	
4) Which of the followard of the followa	piles instruction or by the JIT concompiled by JIT	ns into machir mpiler runs ur compilers are compilers are	ne code at ider CLR. e written ir	run time. native code.	Language (IL) code	
5) Which of the folloa. System.Type		ot of the .NET em. Parent		rchy? System.Base	d. System. Ob	oject
6) Code that targets a. unmanaged	s the Common b. Distributed	Language Run	time is kno c. Native		d. Managed C	Code
7) Which of the followa. It is an environme Applications and b. It is an environme c. It is an environme d. It is an environme d. It is an environme d.	ent for develo Web Services. ent for developent for developent	ping, building ing, building, ing, building,	, deploying deploying deploying	g and executing and executing and executing	only Web Applicatic Distributed Applicat	ons.
8) How many types a. 4	of JIT compiler b. 2	s available un c. 1	der CLR?	d.3		
9) Which of the folloa. Managed code is b. Managed code is c. Managed code is d. All of above	the code that i	s compiled by e resources a	the JIT co re Garbage	mpilers. Collected.		
10) Name Type of a a. Private, shared a	•	b. Public, p	rotected a	ssembly	c. All the above	d. None
11) In Shared Assen	nbly every proj b. F a		ocal copy			



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12) In Private Assembly (a. True	every project will have b. False	local copy		
13) For shared Assembly a. True	you have to generate : b. False	Strong name		
14) Strong Name include a. only name of the .net c. culture identity, and a	assembly,	b. only ve d. all the	ersion number above	,
15) Shared Assemblies a a. System Assembly Cacl c. Machine Assembly Ca	he		Global Assemb Vindows Asser	-
16) To create a key pair	command is			
a. sn –k	b. sn-k	c. ns –k	d. none	
17) Command to move o	dll file in shared location	า		
a. gacutil/i dllfilename	b. gc	c. gautyil/I		d. none
1) .entrypoint	One,			

Net frame work

a. MSIL code	b. Metadata	
c. Assembly Manifest	d. Module Manifest	e. C#
2) From which one of the follow	ring locations does the garba	ge collector remove objects?
a. The system registry	b. The thread stack	c. The managed heap
d. The global assembly cache	e. The download cache	•
3) How does .NET Framework al	lleviate "DLL Hell"?	



- 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.



-		e same mad	chine, at the same time, or	r even the same process, of			
any version of the							
=	d. It registers all assemblies with the COM+ catalog.						
e. It registers all asser	nblies with the Glo	bal Assembl	ly Cache (GA				
11) is collection	on of reusable class	es or type					
a. Base Class Library			c. Both a and b are true	d None of the above			
a. Dase Class Library	b. The Libra	агу	c. Both a and b are true	u. None of the above			
	uage runtime can k vices, such as			manages code execution. It			
a. code compilation			b. memory a	allocation			
c. thread managemen	nt, and garbage col	lection	d. All of the	Above			
components can i originally.	nteract with each c	other no ma	age compatibility, which m tter what supported langua ible because of the commo	age they were written in			
b. This level of cross-l	anguage compatibi	lity is possib	ole because of the commor	n Type System			
c. This level of cross-l	anguage compatibi	lity is possik	ole because of the Commo	n Language Specification			
d. d. None of the above	ve						
A. standards to which	.NET language con ompiled by a .NET (npilers must compiler car b. State	on (CLS) defines the minim t conform. Statement B: CL n interoperate with the .NI ement B is true e of the above	S ensures that any source			
		C#	Basic				
1) How many Bytes ar	e stored by 'Long'	Datatype in	C# .net?				
a. 8	b. 4	c. 2	d. 1				
2) Correct Declaration	of Values to varial	oles 'a' and	'b'?				
a. int a = 32, b = 40.6;	b. int a = 4	2; b = 40;	c. int a = 32; int b =	40 ; d. int a = b = 42;			
-		er of increas	sing magnitude sbyte, shor	_			
a. long < short < int < sbyte b. sbyte < short < int < long							
c. Short < sbyte < int	< long		d. short < int < sbyte <	Clong			
4) Which datatype shoof a program?	ould be more prefe	rred for sto	ring a simple number like 3	35 to improve execution speed			
a. sbyte	b. short	c. int	d. long				
5) Which Conversion	function of 'Conver	t.TOInt32 ()	' and 'Int32.Parse ()' is effi	cient?			
•			argument exception for nul				



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2) C	onvert.Int32 () ເ	used for datat	ypes and returns	directly '0' fo	or null string
a. 2	b. Bo	oth 1, 2	c. 1	d. None of	the mentioned
6) W	/hat is the Size o	of 'Char' datat	ype?		
a. 8	bit b	. 12 bit	c. 16 bit		d. 20 bit
7) Se	elect output for	the following	set of code.		
	 static void M 	lain(string[] a	rgs)		
	2. {				
	3. int a = 5;				
	4. int b = 10;				
	5. int c;				
	6. Console.Wri	-	a + b ++);		
	7. Console.Wri				
	8. Console.Rea	dLine();			
	9. }	h 10 10	- 10	4.4	J 4F 44
а. т	1, 10	b. 16, 10	c. 16,	11	d. 15, 11
				Enum	
				LIIUIII	
1 \ \ \	thich among the	following car	anot ho usod as a	datatuna fai	can only in C# NET2
a. sł	_	_	louble	c. ir	r an enum in C#.NET?
u. 51	.0.0	5.0		C. 11	
		2) Choose t	the correct outp	out for the (C#. NET code given below?
1.	enum days: ir	ıt			
2.	{				
3.	sunday = -3	3,			
4.	monday,				
5.	tuesday				
6.	}				
7.	Console. Writ	• • • • • • • • • • • • • • • • • • • •			
8.			ays.monday);		
9.	Console. Writ	• • • •	lays.tuesday); h) 0 1 2 c) = 3	_2 _1 d) sunday monday tuesday
		u) 501	b) 0 1 2 c) 3	2 1 u	sanaay monaay tacsaay
		3) <i>Ch</i>	oose the correc	ct output fo	r given set of code?
			1. <i>e</i>	enum color:	int
				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

b) 0 c) a

Structure d) letters. 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 ();
        }
a. 25,12.00
                      b.12.05,25
                                             c.0,0
                                                            d. None
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
                                                     c) compile time error
                              b) 0 0 100
                                                                                   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?
    1. 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
                                                                              d) final
a) Static
                                                 c) Sealed
}
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();
    }
  }
                                                       c) Compile time error
  a) A, A
                                b) B, B
                                                                                              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();
  }
}
                                               c) Compile time error
                                                                                      d) A, B
a) A, A
                       b) B, B
```

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;
```



```
Console.WriteLine(x + y);
   10.}
   11. public maths(double x, int y)
   12. {
   13. length = (int)x;
   14. breadth = y;

 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
a) 8, 8
                                                                                   d) 7, 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
    17. {
    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. }
                             b) 75
                                                          c) 80
                                                                                       d) 0
a) 30
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();
o	1

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();
  }}
                                                                                d. None
  a. I1.A(),I2.A()
                                 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
  B.F
  B.None
  C. Init B B.F
  Init A
  A.F
  D.Error
   13) Constant variable are by default static
                                 b. false
    a. True
```



	.4) Readonly varia a. True		either initialised at tir False	ne of declaration or in constructor	
1	.5) Readonly varia	able must be i	nitialised at time of c	leclaration	
ā	a. true	b.	false		
1	.6) Readonly varia	able required	data at compile time		
â	ı. True	b.	False		
1	.7)Const variable	required data	at runtime		
ā	a. True	b.	False		
1	.8) class program				
{	const int a=5;				
	Static void Main	()			
	{ program C= ne }	w program();	Console.WriteLine(C.a);	
}					
ā	a. Compile t	b.5	c. none	d. run time error	
1	.9) class program Static void main { program C= ne Console.WriteLin }	() w program();			
ā	a. Compile ti	b.5	c. none	d. run time error	
	20) You cannot de a. True		riable inside method False		
	21) You cannot de a. true		variable inside meth	od	
			Exc	eption	
1) V	Vhich among the	following is N	OT an exception?	•	
a) S	tack Overflow	_	b) ,	Arithmetic Overflow or underflow	
c) lı	ncorrect Arithme	tic Expression	d) <i>i</i>	All of the above mentioned	
арр	roaches?			age of exception handling over conventional error	r handling
a)	AS ELLOTS CAN	ne ignorea bl	it exceptions cannot	ne ignored	



Remaining program

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	paration of program's	logic from err	or handling logic making software more
reliable and maintainable			
	allows guaranteed cle	an up in even	t of errors under all circumstances
d) All of the above mentioned			
3) Select the correct statement about	ut an Exception?		
a) It occurs during loading of program	m	b) It occurs o	during Just-In-Time compilation
c) It occurs at run time		d) All of the	above mentioned
4) Which of these keywords is not a	part of exception han	dling?	
a) Try b) finally	c) thr	own	d) catch
5) Which of these keywords must be a) try b) finally	e used to monitor exce c) throw	eptions? d) catch	
6) Which of these keywords is used	to manually throw an	exception?	
a) try b) finally	c) throw d)	catch	
 Choose the correct output for the class program class program { static void main(string[] and the class of the correct output for the class of the c	cception e) out of bounds"); ining program");		



- d) None of the above mentioned
 - 8) Choose the correct output for the given set of code:
 - static void Main(string[] args)
 - 2. {
 - 3. try
 - 4. {
 - Console.WriteLine("csharp" + " " + 1/Convert.ToInt32(0));

 - 7. catch(ArithmeticException e)

 - 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

 - 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



11) What will be the of the following of the following states and the following states are states as a second of the fo	3, 4, 5}; < 7; ++i) eLine(a[i]); utOfRangeExceptio eLine("0");			
a) 12345	b) 123450	c) 1234500	d) Compile time	e error
12. When no exception a) CLR	on is thrown at run b) Operating Syst		der d) Comp	piler
1) pops	up a list of method			of typing the full method
name.				
a) Intelligence	b) intell	igence	c) goodsense	d) intellisense
2) C# supports all a. True		ented concepts suc b. False	h as encapsulation inhe	eritence and polimorphism
3) C# is case sensit		b. False		
4) We use thea. Console.WrileIn		_		d. Console.PrintLine()
5) me a. Non Static	ethod can by called b. Static	creating an instan c. All of the above		ne Above
6) C# provides us a. int ,float		ed references type: String	s and c. bool , int	
7) In an enum typ type.	e each of the name	e constant should r	necessarily have an	



a. int	b. double	c. string		
8) A reference t	o a reference-type ins	tance requires hov	v many bytes?	
a. 2 bytes	b. 4 bytes	c.8 bytes	d.16 bytes	
· · · · · · · · · · · · · · · · · · ·	haracter is used to ind	icate a verbatim st d. #	ring literal?	
10) What is box	ing?			
a. The conversi	on of a value type to ar	n object instance		
	on of an object instanc			
c. The conversi	on of a value type to r	eference type.		
d. The conversi	on of a reference type	to a value type		
a. It complies b. It translat c. It translat .NET appl d. It translat .NET appl	ication. es the assembly code o	chine language. sembly and uses tl of MSIL and uses tl	he CPU architecture o	f the machine to execute a f the machine to execute a rability
c. Automatic ı	management of resour	ces d. A	ll of the above	
13) Which stat	ement is used to repla	ce multiple if state	ement in code?	
a. Select – Cas	e b. Switc h	ı – Case	c.Both 1 and 2	d.None of the above
14) Which of t	he following is not a m	ethod of System. (Object?	
a. GetType	b.ToStri	ng c.Eq	uals d.Cl	one
{ int a; a = 1 if(a) System.Con	ain(string[] args)	.	else	
} }			- D - 11	به مار
a. I can use c# wro	ongly b. I can t	take chances	c. Runtime Error	d. Compile Time Erro



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
  }
   }
a. -5,-3,-1
                       b. None
                                       C. 5,3,1,
                                                          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
a. Error
                                                                         d. Programmer, Error, 02/06/2015
                                                       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		
		Assemb	y 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 nar	mespace			
a. System	b. System.Collec	tion c. Sy	stem.Collection.Generic	d. none
15) When creating a 0	C# Class Library pr	oject, what is the	name of the supplementary	y file that Visual
Studio.NET creates th	at contains Gene	ral Information ab	out the assembly?	
a. AssemblyInfo.xml		b. Assembl y		
c. AssemblyInformati		d. Assembly		
16) Which of the follo		•	• •	
a. array	b. delegate	c. enum	d. class	
17) What is the differ		=	-	
_			d overloading same name w	ith different argument
b. Overridding is dyna	_			
c. Overridding, same All the above Q18	signature with di	fferent definition	, overloading has different	signature d.
18) A reference to a r	eference-type ins	tance requires ho	w many bytes?	
a. 2 bytes	b. 4 bytes	c.8 bytes	d. 16 bytes	
19) Which of the follo	owing is the C# eso	cape character for	· Null?	
a. \n	b. \0	c.\f	d. \v	
20) Which keyword is	used in C# to pre	vent a class from	being inherited by another	class?
a. override	b. protected	c. seale	d. No	otInheritable
21) C# types are defir	ned in	, organized by	, compiled in	ito, and
then grouped into	D			
	namespaces, asse			
b. files, namespa	ces, assemblies, n	nodules		
	es, namespaces, n			
d. files, namespa	ices, modules, ass	semblies		
22) What is Boxing?				
a. The conversion of		=		
b. The conversion of	-			
c. The conversion of				
d. The conversion of	a reference type	to a value type		
•	•	•	f the class namely 'this'	
	used in a static m		-	
	used in a class A t			
c. The this memb above are cor		leclared: it is auto	matically implied when you	create a class d. All the
e. None of above	!			



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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 a. GetData()	set, which methord of b. FillData()	DataAdapter is used c. FillDataset()	d.Fill()
11) What does ADO stan a. Advanced Data Object c. ActiveX Directory Obje	b. A	Active Data Objects ActiveX Data Objects	
		ASP	
1) What does ASP standa. All Standard Pages	for? b. Active Server P	ages c. A Server Page	d. Active Standard Pages
•	e set on a validator cor ValidateControl	ntrol for the validation to work c. ControlToBind	d. ControlToValidate
_	formation and variable ormation and variable of server browser	definitions for the application definitions for the application	1
•		Veb d. None of	the above
5) The first event triggers a. Page_Init() b.	s in an aspx page is. Page_Load()	c. Page_click()	
6) What class does the A a. System.Web.UI.Page c. System.Web.GUI.Page	b.	inherit from by default? System.Web.UI.Form System.Web.Form	
7) We can manage states a. Session Objects	s in asp.net application b. Application Ob	-	te d. All of the above
8) Caching type supporte a. Output Caching		c . a and b	d. none of the above
9) What is used to valida a. Extended expressions c. Regular expressions	b.	rns like an e-mail address? Basic expressions r expressions	
10) An alternative way o	f displaying text on web	page using	



a. asp:label	b. asp:lis	titem	c. asp:button	
11) Default Session da	ata is stored in ASI b. Sessior		c. InProcess	d. all of the above
·			ubmitted using the "post" i	
a. Request.QueryStrir	ng b. Reque s	st.Form	c. Response.write	d. Response.writeln
13) Which object can a. Application object	• •			d. Server object
14) Which of the follo	= -	ect encapsulat tion object	es the state of the client? c. Response object	d. Server object
15) Which of the follo a. RegularExpression\ c. equals() method	_	b.	that two fields are equal? CompareValidator RequiredFieldValidator	
16) Which of the follo	owing transfer exe	cution directly	to another page?	
a. Server.Transfer	b. Respor	se.Redirect	c. Both A. and B.	d. None of the Above
17) The type of code a. Server-side code			? c. Both A. and B.	d. None of the above
18) When an .aspx pa following format.	ge is requested fr	om the web se	rver, the out put will be re	ndered to browser in
a. HTML	b. XML	c. WML	d. JSP	
19) Which of the follo a. IsPostBack is a met b. IsPostBack is a me c. IsPostBack is a read	hod of System.UI. thod of System.W	eb.UI.Page cla	iss	
20) Does the EnableV a. Yes	iewState allows th	. •	e the users input on a form . No	?
21) Explain the significations the Virtual Parab. Maps the specified c. Returns the physical physical specification in the significant parabolic specific specification in the significant parabolic specification in t	ath of the web fold virtual path to Ph	der ysical path	virtual specified path d.	
All the above	•	-		
22) By default, ASP.N	ET store SessionID	s in		
a. Cookies	b. Cache	c. Databa	ise d. Global vari	able



1) Which of the following is True?

a. Entity Framework is an ORM framework.

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ENTITY

b. Entity Framework	is an open source O	RM framewor	k.	
c. Entity Framework i	s database mapping	g tool.		
d. Entity Framework i				
	g related data wher	e a query for o	ne type of entity also	loads related entities as part o
the query is called:				
a. Lazy loading	b. Eager lo a	ading	c. Explicit loading	d. Quick Loading
3) Which of the follow	ving development a	pproaches are	supported in Entity Fr	ramework?
a. Code First	b. Database First	c. N	1odel First	d. All of the above
4) What window in Vi	sual Studio display (CSDL, MSL and	SSDL of Entity Frame	work?
a. Model window	b. Model Brow	vser	c. EDM Designer	d. Solution Explorer 5
Which of the followin	g is TRUE?			
a. DbContext can not	be used in Code Fir	st approach		
b. ObjectContext is a	wrapper around DB	Context		
c. DbContext is a wra	pper around Objec	tContext		
d. DbContext is a seal	ed class which cann	ot be override		
6) CSDL stands for				
a. Common Schema [Definition Language	b. C	onceptual Schema De	efinition Language
c. Conceptual Store D	efinition Language	d. C	onceptual Storage De	finition Language
7) Which of the follow	ving query syntax ca	an be used to q	uery EDM?	
a. LINQ-to-Ent	·	-	ve SQL d. All of the a	bove
8) An XML-based lang	guage that describes	s the storage m	odel of an Entity Fran	nework application is called
a. SSDL	b. CSDL	c. EDN	d. MS	L
9) An XML-based lang	guage that describes	s the mapping I	petween the conceptu	ual model and storage model o
an Entity Framewo	rk Application is cal	led		
a. SSDL	b. CSDL	c. EDM	d. MSL	
10) Which of the follo	owing is NOT a type	of entity?		
a. POCO	b. POCO Proxy		ntityObject	d. D: DBSet
11) Which of the follo	wing is NOT TRUE a	hout the Entity	, Eramowork?	
•	_	•		lasses dynamically when the
model is changed.	nerates the classes	nom the mode	i and apaates these t	asses aynamically when the
b. It takes care of data	abase connectivity.			



c. It provides query syntax	k for querying the inc	uei			
d. It does not provide any	mechanism to track	changes to t	he model's obje	cts.	
12) Which of the following a. DBContextManager c. ObjectStateManager	b.	nange tracking ObjectContex EntityObjectN	tManager		
13) How to disable Lazy lo a. myDBContext.Database b. myDBContext.Configur c. myDBContext.LazyLoad d. myDBContext.Students	e.LazyLoadingEnabled ration.LazyLoadingEn lingEnabled = false;	l = false; abled = false;			
14) Which interface you h IObjectContextAdapter			nce of ObjectCo	ntext from	DBContext? a.
c. IEntityObjectContext	d.	IObjectConte	xt		
15) An API that can be use a. Fluent API b. C		e First model POCO API	is called: d. T4 Tem	plate	
		MVC			
1) MVC stands for					
a. Model, Vision & Controc. Model, ViewData & Cor			w & Controller ta & Controller		
2) Which of following is TF a. The controller redirects b. The controller execute : c. The controller controls d. The controller render h	incoming request to s an incoming reques the data.				
3) The model is a					
a. Shape of data	b. Html content	c	. Collection of da	ata	d. Type of data.
4) Which of the following	is a type of view in M	IVC?			
a. Partial view	b. Executable vie	w c	. Data view		d. Designer view
5) Which of the followings a. ActionName	are Action Selectors b. NonAction		. ActionVerbs		d. All of the above
6) Which is the default htt a. HttpPost	p method for an action	on method? c. HttpPi	ut d.	HttpDelete	



7) Which of the follo	owing view file type	es are supporte	ed in MVC?		
a. cshtml	b. vbhtml	c. aspx	d	. All of the above	!
8) HtmlHelper class					
a. Generates html	elements	b	. Generates hti	ml view	
c. Generates html h	elp file	d	. Generates mo	odel data	
	•				
9) attributes	can be used for dat	a validation in	MVC.		
a. DataAnnotations	b. Fluent	API c	. DataModel	d. H	ItmlHelper
10) Which of the fol	lowing view contain	ns common pa	rts of UI?		
a. Partial view	b. Html View	c. Layou t		d. Razor vie	3W
11) How to transfer		-			
a. Using model obje			c. Using	ViewData	d. All of the above
12) TempData is use	eful to .				
a. Transfer data fro		r			
b. Transfer data fro	m one page to ano	ther page			
c. Transfer data fro	. •				
d. Store data perma					
	/				
13) What is action f	ilters?				
a. Action filter exec	utes before and af	ter action met	hod executes.		
b. Action filter exec	utes before action r	method execut	es.		
c. Action filter exec	utes after action me	ethod executes	5.		
d. Action filter exec	utes parallel to action	on method.			
14) Bundling allows					
a. Loading of multip		request h	Loading of mu	ultiple view files in	n single request
c. Loading of cachin	-	•	•	•	in single request.
15) Which of the fol	llowing is a default	route nattern i	n MVC?		
a."/{action}/{contro	· ·	route pattern i		roller}/{id}"	
c."{controller}/{act			=	roller}/{action}"	
c. \controller // \act	iong/ (iug		u. įconti	oner // (action)	
16) Which of the fol	lowing default class	s is used to cor	nfigure all the r	outes in MVC?	
a. FilterConfig	b. RegisterRoute		c. Route		d. MVCRoutes
17\\\/hish of +ho fo	llowing mothed of	html boloor co	noratos biml s	ontrol based on th	ha data tuna af
17) Which of the fo specified property?		num neiper ge	חבומנצג חנוווו ני	ontroi baseu on ti	ne uata type oi



a. Html.TextBox	b. Htm	I.Password	c. Html.Edit	or	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 repres	ents?	
A) 304	B) 302	C) 301	D) 30	00	E) None
20) RedirectToAction	() Method for w	hich Status code	represents?		
A) 304	B) 302	C) 301	D) 30	00	E) None
21) What is ActionRe A) It is an abstract Cl C) Both A and B	**	B) It is a C D) None	oncrete Class		
22) What is ViewResu	ult() ?				
A) It is an abstract Cla	ass	•	Concrete Class		
C) Both A and B 23) return View() wo	orks like in ASP.N	D) None let MVC C# as			
A) Server.Transfer()			se.Redirect()		
C) Both A and B		D) None			
24) RedirectToAction A) Server.Transfer() C) Both A and B		ASP.Net MVC C# a B) Response.Red D) None			
25) In which format c	lata can be retu	rn from XML into	table ?		
A) DataSet	B) Datatable	C) A and E	3	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	ue follows ASP.N	et ?		
A) Top-Down	B) Down-Up	C) Pipelin	e	D) Water fall	
28) What is DRY prince A) Don't repeat your C) both a and b	•	В)	Don't revise your None	self.	
29) What is default a	uthentication in	Internet Informa	tion Services (IIS)?	?	
A) Standard User	B) Adm	inistrator	C) Anonymo	us	D) None



Answer: Default Route Name:

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

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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 exten	sion of MVC view whe	en using vb.net?)	
A) cshtml	B) vbhtml	J	C) None	D) Both A & B
32) How can you com	ment using Razor Synt	tax?		
A) *@ Comment me *	= -	B) @* Comme	ent me *@	
C) @* Comment me (D) *@ Comme		
c) & comment me (<i>D</i> / @ CO/////C	are me @	
33) Which Namespace	e is used for Razor Vie	w Engine ?		
A) System.Web.Razo	r	B) System.Wel	b.Mvc.WebForr	nViewEngine
C) Both A & B		D) None		J
-,		,		
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		D) None		
•		,		
35) The Razor View Er	ngine uses to render se	erver side conte	ent.	
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	w Engine and R	azor View Engir	ne.
A) ASPX View Engine		_	C) Both A & B	D) None
38) Does Razor Engine	•	G	,	,
A) Yes	B) No	C) None		
,	,	,		
39) Does ASPX View E	ingine supports for TD	D ?		
A) Yes	B) No	C) None		
7.1, 7.03	2,110	0, 110110		
40) How to Print value	e from Controller to Vi	iew in MVC ?		
•	nil = "my message"; an		wRag FCMDet	ail
=	il = "my message"; and		_	uii
	il = "my message"; and		•	
,	ii – Tily Hiessage , alic	ill view viewo	ag. Hitle	
D) None				
41) What are the adv	antages of using ASP.N	IET routing?		
•	•	_	s b++n.//	tachnalaguerauds cam?aba-10
				technologycrowds.com?abc=10 ,
now clean UKL in MV	C ASP.Net will be work	k like http://ww	w.technologyci	rowas.com/abc/10
40) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
42) What is the signifi	icance of ASP.NET rout	ting?		



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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

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g.

- 1. NDjango uses F# Language.
- 1. Hasic uses VB.Net, XML.
- 1. Bellevue for ASP.NEt view, It respects HTML class first.

55) What is scaffoldin	g using ASP.Net MVC	Engine?			
Answer: Scaffolding h	: Scaffolding helps us to write CRUD operations blend using Entity Framework, It helps developer				
write down simply ev	en yet complex busine	ess logic.			
56) What is life cycle i	n ASP.Net MVC Engine	e?			
Step 1: Fill Route (Glo	bal.asax file will hit fir	rst).			
Step 2: Fetch Route: I	t will gether informati	on about controller and actio	n to invoke.		
Step 3: Request conte	ext				
Step 4: Controller ins	tance: it calls Controll	ler class and method.			
Step 5: Executing Acti	i on: It determines whi	ch action to be executed			
			sponse to view in differentiating		
forms like Json, View	Result, File Result etc.				
57) Which is the way	to render Partial View	using ASP.Net MVC Razor Eng	gine?		
A) @Html.Partial("_P	<mark>artialHeader")</mark> B) @Ht	.ml.PartialView("_PartialHead	er") C)		
@Html.PartialHtml("_	_PartialHeader")				
D) B and C					
E) None					
58) Which Namespac	e is used to "Display"	in Data Annotation using MV(2?		
A) System.Componer		B) System.ComponentMode			
C) Both A and B		D) None			
EON Which Names nac	ess are required to Dat	Annotation using MAVC 2			
A) System.Componen		ta Annotation using MVC ?	I Data Annotations		
C) Both A and B	tiviouei	B) System.ComponentModel.DataAnnotations D) None			
c, both A and b		D) None			
60) Are both TempDa	ta/ViewData require t	ypecasting in MVC?			
A) Both (TempData/V	/iewData) requires ty	pe casting to avoid null excep	tion.		
• • •		ot require type casting.			
C) Both A) & B)	,				
D) None					
61) Is ViewBag slower	than ViewData in MV	'C?			
A) Yes	B) No	C) Both A) & B)	D) None		
62) Is ViewData faster	rthan ViewBag in MV(0?			
A) Yes	B) No	C) Both A) & B)	D) None		
,	, -	, ,,	,		

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

C) Both A) & B)

D) None

B) No



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 I C) Both A) & B)	VIVC? D) None
65) Can ASP.Net Web A) Yes	API specialize to XML B) No	or JSON ? C) None	
66) Does Web API (AS	SP.Net) supports to nor B) No	n SOAP based like XML or JSO C) None	N ?
67) Does Web API (AS	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?
A) AuthConfig.cs is us	ig.cs in ASP.Net MVC? ed to configure route s sed to configure securi		uth Login. C)
A) BundleConfig.cs in B) BundleConfig.cs in	MVC is used to regist	r filters for different purposes	ing and minification, serveral
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 used to register global	onfig statements, route conf	ig.



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~ , ,

- 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 =

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 Engi write it in Razor View	•	ction and contain @ s	pecial character then how we can
A) Replace @ to @@(B) Replace @ to @	@@ (double)
C) None		D) Both (A & B)	
84) How to set Defaul	t Value to Hidden Input Bo	x using ASP.Net MVC?)
A) @Html.HiddenFor(m => m.Name, "Jack")		
•	(m => m.Name, new { Valu	• •	
,	=> m.Name, new { Value =	"Jack"})	
D) None			
85) How to check all e	errors of Model using ASP.N	Net MVC?	
·	.Values.SelectMany(v => v.		
B) var errors = Model	State.SelectMany(v => v.Er	rors);	
C) var errors = Model	State.Values.SelectMany(v => v.Errors);	
D) None			
86) AuthConfig.cs file	is under in which App fold	er?	
A) App_Data	B) App_Start		
97) RundloConfig cs fi	le is under in which App fo	older ? C) Content	D) Filters
A) App Data	B) App_Start	ider: C) Content	b) Tillers
7.7.7.pp_baca	5/ / lpp_5tdi t		
88) FilterConfig.cs file	is under in which App fold	ler? C) Content	D) Filters
A) App_Data	B) App_Start		
00 5 . 6 . 6 . 61			D) 5:11
ŭ	e is under in which App fol	•	,
A) App_Data	B) App_Start C) C	ontent D) Filt	ers
90) WebApiConfig.cs	file is under in which App f	older ?	
A) App_Data	B) App_Start	C) Content	D) Filters
04) Cara a l'al da a	ata la casa Casa di Lata Ar	CD N - 1 N AV / C 2	
•	ain types of result using AS		others are sub types of results as listed
below:	in types of result, Actionic	esuit is main type and	others are sub-types of results as listed
	/lvc.ActionResult		
· ·	/lvc.ContentResult		
 System.Web.N 	/lvc.EmptyResult		
 System.Web.N 	/lvc.FileResult		
 System.Web.N 	/lvc.HttpStatusCodeResult		
 System.Web.N 	/lvc.JavaScriptResult		
•	/lvc.JsonResult		
•	/lvc.RedirectResult		
 System.Web.N 	/lvc.RedirectToRouteResult	t	

System.Web.Mvc.ViewResultBase

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



A) Action filters	B) Authorization filte	r s C) Respo	nse filters	D) Exception filters
93) Which filter will b	e execute at last using	ASP.Net MVC?		
A) Action filters	B) Authorization filter	s C) Except	tion filters	D) Response filters
		WCF		
1. Which of the follow	ving is NOT true?			
	be consumed by Wind	7 7		
B) A WCF Service canC) A WCF Service can	be consumed by Web	applications		
D) A WCF Service can	•			
2. WCF services can c	ommunicate with			
A) all programming la	inguages			
B) XML	s included with Visual S	tudio NET		
	s and multiple languag			
3. The standard meth	od for storing data tha	t can be transferi	red easily from or	ne machine or platform to
another is				
A) XML	B) SOAP	C) WSDL	D) WCF	
	nges of usingi	s that data are tra	ansmitted in a tex	kt format rather than a binary
format. A) XML	B) SOAP	C) WSDL	D) WCF	
F Data that is in	format can nace	through many fi	rowalls that	connet nonetrate
	B) text, binary			cannot penetrate. D) WCF, SOAP
6. is a pop	ular standard that incl	udes a set of rule	s for handling req	uests and responses
	s, method names, and p			
A) XML	B) WCF	C) WSDL	D) SOAP	
		•		be passed, and the values that
				iption specified in
A) XML	B) SOAP	C) WSDL	D) WCF	
		to avoid an	extra trip to the	server to determine that it is a
site rather than a dire A) hyphen	•	C) backslash	D) double s	ilash
,, pc	_,	5, 5451014511	2, 404516 3	
9. A resource on the \	Web is uniquely identif	ied by its URI, wh	nich means	·



A) Uniform Resource Identifier Uniform Registered Identifier	B) Universal Registered Identifier C) D) Universal Resource Identifier
10. To add a WCF Service, select the solution namenu.	me in the Solution Explorer and select from File
A) Add / New Solution	B) Add / New Web Site
C) Add / New Service	D) Add / New Library
application to test the service. You want add an	Vindows Communication Foundation and also a client endpoint in the web.config file of the client application to clude in you service element of the web.config file? A. C. Binding D. All of these
concrete level, it is a statement about a set of sp	nt communicates to the outside world. At a more pecific messages organized into basic message exchange y, and duplex. Which of the following is NOT part of the
A. The data types of messages	B. The specific protocols and serialization formats C.
The location of the operations	D. The frequency of messages per second
their grouping. In Windows Communication Fou	a service contract you usually model operations and specifindation (WCF) applications, developers define the with the which attribute? A. ServiceContractAttribute
C. DataContractAttribute	D. OperationContractAttribute
	ect that contains a wide variety of operations grouped now need to add an attribute to the class to define it as a
A. OperationContractAttribute	B. DataMemberAttribute
C. DataContractAttribute	D. ServiceContractAttribute
define a WCF service contract. However, it is recommodel service contracts. Without an implement	ping of functionality and, therefore, both can be used to commended that you use interfaces because they directly ation, interfaces do no more than define a grouping of ollowing is a benefit of using interfaces to define Service

- A. Service contract interfaces can extend any number of other service contract interfaces.
- B. You can modify the implementation of a service contract by changing the interface implementation, while the service contract remains the same
- C. A single class can implement any number of service contracts by implementing those service contract interfaces.
- D. All of these
- 16. You have created a new class which will be the basis for a Service Contract. You have used



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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 with other platforms that support SOAP and simple XML. A. True B. False							
31. An endpoint indicates where messages can be sent (address). A. True B. False							
32. Data that is in binary format can pass through any firewall. A. True B. False							
	33. WSDL contains information about the names of the methods, the parameters that can be passed, and the values that are returned from the functions. A. True B. False						
34. For technical specificatio A. True	ns, the industry star B. False	ndard term URL	is preferred to URI.				
35. The transport protocol us A. True	sed by SOAP is HTTF B. False	o.					
36. To rename a Web Service you need to change only the name in the Solution Explorer. A. True B. False							
37. When a new project is added to a WCF Service solution, the projects are saved independently. A. True B. False							
		Web API					
Web API, an object that h a) Model b	andles HTTP reques Controller	ts is known as a c) Properties	a d) Web server				
Web API supports which a) TCP	of the following pro	otocol? c) Soap	d) All of the above				
3. Q.12) Web API supports a) JSON b)	which of the followi) XML	ing request/resp c) BSON	oonse data formats by defa				
4. Which of the following .Na) .NET 2.0	NET framework supp b) .NET 3.0	oorts Web API?	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.



a) 404 - Not Found

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	d) None of the abov	/e				
6.	Web API uses which a) Json.NET		owing open-source Formatter.NET			None of the above
7.	Web API controller r	nust be de	rived from			
	a) Controller class	nast be ac	b) ApiController c	 lass		
	c) WebApiController	class				
	o, rrest presidenti ener	0.000	a, westernmen			
8.	Which of the followi	ng types of	routing is supporte	ed in Web API 2?		
	a) Attribute Routing	, ,	b) Convention-base	ed Routing		
	c) All of the above		d) None of these			
9.	Which of the followi	ng types ar	e valid response ty	pes of Web API 2 act	tion method?	
	a) HttpResponseMe	essage	b) IHttpAct	ionResult		
	c) Custom types		d) All of the	e above		
10). Web API sends wl	nich of the	following status co	de on successful exe	cution?	
	a) 200	b) 201	c) 50	00 d)	404	
11	Which of the follow	ing is a for	matter class for ISC	NN?		
	a) JsonMediaTypeF	_		liaFormatter		
	c) Json.Net	ormatte.	c) None of			
	c, 35011111CC		<i>5</i> ,			
12	. Which of the follow	ing proper	ty returns all the fo	rmatters in Web AP	l?	
			, guration.JsonForma			
	b. Configuration.Fo		-			
	c. GlobalConfigura		atters			
	_		guration.Formatte	rs		
4.7	NA a la ADI Elitana ana					
13	 Web API Filters are a. to add an extra l 			athed evecutes		
	b. to provide authe			etilou executes		
	c. to Launch Web A		iiu autiiorizatioii.			
		API				
	d. to host Web API					
14	. Web API extract th	ne values o	f primitive type par	rameters of an action	n method from	by default.
	a) HTTP Request Bo		b) HTTP He			
	c) Message Header	•	d) Query St			
	, 0		,	Č		
15	. Web API extract th	e values of	f complex type para	ameters of an action	method from _	by default.
	a) HTTP Request B	ody	b) H	ITTP Header		
	c) Message Header		d) Query St	ring		
16	6. By default, Web AP	I sends HT	ΓP response with w	hich of the following	status code fo	r all uncaught exception

b) 500 - Internal Server Error



d. All of the above

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c) 204 - No content.	d) None	of the above	
17. Which of the following i	s used to check the	e validity of the model	in Web API?
a) Mode.Valid	b) Mode	.IsValid	
c) ModelState.IsValid	d) Mode	State.Valid	
18. Web API 2 is supported	in		
a) . NET 4.5	b) .NET 4.0	c) .NET 3.5	d) .NET 3.0
19. Which of the following i	s true?		
a. Web API can be self-	host.		
b. Web API can be host	in IIS.		

c. Web API can be host in any web server that supports .NET Framework.