学号:

一、选择题(15×2=30)

1. In C#, which of t	the following types is	value to a		
A. Class	BEnum	C. Interface	D. Delegate	
2. Which .NET type	does the C# keywor	d "int" man to?		
System.int16	System.Int3	C. System.Int64	D. System.Int128	
3. Which of the state	ements is correct to d	eclare a two-dimensional arr		
	"	B. int myArray[][];	ay in C#?	
C. int[2] myArra	y;	D. System.Array[2] myArr	ay;	
4. Which of the follo	wing is a verana f			
Which of the following is a wrong function definition? A. public virtual void Func() B. public abstract void Func()				
public const void Func()		B. public abstract void Func()		
	r ano()	D. public extern void Func()		
5. Which keyword is arguments to a cons	used to allocate mem	ory for an instance of a class	s, as well as to pass	
A. alloc	B. new	C. delete	D. malloc	
6. A property'sassociated with the p	_ accessor enables a	a client to modify the valu	e of the instance variable	
A. base	B. this	C. get	set	
7. What is the default a	ccess level for class	members in C#?		
A. protected		© private	D. internal	
If a method is marked	das Protected v	who can access it?		
		eference to an object of that	base class	
B. Only methods that			Carlo Carlo	
C. Classes in the decl	aring assembly.			
Classes derived from	om the declaring clas	SS.		
Which of the following	g statement is wron	g?		
A. Abstract methods d	o not have an imple	mentation in its declaring of	elass.	

D) If a base class declares an abstract method, a derived class must implement that method.

C. If a class has abstract methods (declared or inherited) it must be abstract itself.

B. Abstract methods are implicitly virtual.

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10. Which of the following statements will cause a compiler error?

```
class A {
    ...
}
class B : A {
    public B(int x) {...}
}
B b = new B(3);
```

```
class A {
   public A() {...}
}
class B : A {
   public B(int x) {...}
}
B b = new B(3);
```

class A {
 public A(int x) {...}
}
class B : A {
 public B(int x) {...}
}
B b = new B(3);

```
D. class A {
    public A(int x) {...}
}
class B : A {
    public B(int x):base(x) {...}
}
B b = new B(3);
```

- 11. Which of the following statements is wrong?
 - Classes may derive from multiple base classes.
 - B. Interface members must not be static.
 - C. Interfaces can inherit from other interfaces.
 - D. Classes and structs may implement multiple interfaces.
- 12. In C#, if you want to change a thread's state from suspended into running, what method you should call?
 - A. Start
- B. Suspend
- C. Resume
- D. Interrupt

13. The following class is often called_____.

```
class Buffer<Element> {
    private Element[] data;
    public Buffer(int size) {...}
    public void Put(Element x) {...}
    public Element Get() {...}
```

- A. Abstract Class
- B. Virtual Class
- C. Concrete Class
- Generic Class

14. If you want to select all the numbers which are greater than 1000 in an int array, which of the

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答題纸	姓名:			
15 The statement f = delegate (int >	() { return x + 1; }; is equivalent to			
which of the following statements?				
A. $f = x => x$; B. $f = (x, y) => x+1$;	C. $f \Rightarrow x+1$; D $f = x \Rightarrow x+1$;			
二、判断题 (2×10=20)				
1. In a switch statement, every statement sequer	ace in a case clause must be terminated with break			
(or return, goto, throw).				
2. Structs can be inherited.				
3. If no constructor was declared in a class, the compiler generates a default constructor which				
has no parameter.				
4. A using statement is not required when one class uses another class in the same namespace.				
5. A property declaration must contain both a get accessor and a set accessor.				
6. All methods in an abstract class must be declared as abstract methods.				
7. Exceptions always are handled in the method that initially detects the exception.				
8. Method Equals and the equality operator work	k the same for strings.			
9. A finally block is optional after a try block that	at does not have any corresponding catch blocks			
10. In Windows Form application, a Label control is only used to display some information.				
三、填空题 (2×10=20)				
1. How to convert a string type variable s into	int type and stored it into an int variable named			
num?	Convent ToInt22(x)			
10. militari a managan	Convert. ToInt32(x)			
static				
2. A(n) variable represents classwide information that is shared by all the objects of the class.				
gestin Beligare rate on ele-	Exception			
3. In C#, all exception classes are derived from_	class.			
	thio			
4. A constructor may call another constructor wi	ith the keyword			
5. Suppose you have a double array called nu	mbers, please sum all the elements of the array,			
	double sum=0;			
	foreach(double x in numbers) {			
	sum=sum+x; }			
6. What is the base class for all C# objects?	iect			
	·····································			
7. In C#, converting a value type to a reference				
tr. Ax				
reference type to a value type is called	more and the second			

is used to retrieve specific element in an enumerable object directly?

9. What is the output of the following program when using new B() to create an instance of B? using System; class A { public A() { PrintFields(); public virtual void PrintFields(){ } class B : A { int x = 1; int y; public B(){ y = -1;public override void PrintFields(){ Console.WriteLine(" $x = \{0\}$, $y = \{1\}$ ", x, y); x = 1, y = 010. Please fill in the blank. namespace test public delegate void OnDBOperate(); public class UserControlBase : System.Windows.Forms.UserControl public event OnDBOperate OnNew; private void toolBar_ButtonClick(object sender, System.Windows.Forms.ToolBarButtonClickEventArgs e) { if(e.Button.Equals(BtnNew)) { //Please write code to call OnNew events if(OnNew!=null) OnNew();

四、简答题 (6×5=30)

- 1. Please give a brief description about the difference and connection between the classes and
 - 1.结构体是值类型的,而类是引用类型的
 - 2.结构体和类都有构造器,但是不能为结构体声明默认构造器,而类可以声明默认构造器
 - 3.结构体的实例存储在栈上,而类的实力存储在堆上
 - 4.如果声明自己的构造器,对于结构体来说编译器仍会生成默认构造器,而类则不会
 - 5.如果在构造器中不初始化一个字段,那么对于结构体米说,编译器不会自动初始化,而类会
 - 6.结构体声明实例字段的同时不可以初始化,而类可以。
 - 7.结构不能从另外一个结构或者类继承,本身也不能被继承。而类两者都可以
 - 8.结构和类都能继承接口
- 2. Please give a brief description about the difference and connection between the classes and

异:

不能直接实例化接口。

接口不包含方法的实现。

接口、类和结构可从多个接口继承。但是**C#**只支持单继承:类只能从一个基类继承实现。

类定义可在不同的源文件之间进行拆分。

同:

接口、类和结构可从多个接口继承。

接口类似于抽象基类:继承接口的任何非抽象类型都必须实现接口的所有成员。

接口可以包含事件、索引器、方法和属性。 一个类可以实现多个接口。

3. What is the difference between Overloading and Overriding?

方法重载是一个类中定义了多个方法名相同,而他们的参数的数量不同或数量相同而类型和次序不同,则称为方法的重载(Overloading) 方法重写是在子类存在方法与父类的方法的名字相同,而且参数的个数与类型一样,返回值也一样的方法,就称为重写(Overriding) 方法重载是一个类的多态性表现,而方法重写是了类与父类的一种多态性表现.

4. What is the difference between virtual method and abstract method?

1.虚方法必须有实现部分,并为派生类提供了覆盖该方法的选项 抽象方法没有提供实现部分,抽象方法是一种强制派生类覆盖的方 法,否则派生类将不能被实例化

2.抽象方法只能在抽象类中声明,抽象方法必须在派生类中重写,虚方法不是也不必要重写。其实如果类包含抽象方法,那么该类也是 抽象的,也必须声明为抽象的

3.抽象方法必须在派生类中重写,这一点跟接口类似,虚方法不必。抽象方法不能声明方法实体而虚方法可以,包含抽象方法的类不能 实例化,而包含虚方法的类可以实例化

4.抽象方法只有声明没有实现,需要在子类中实现,虚拟方法有声明和实现,并且可以在子类中覆盖,也可 以不覆盖使用父类的默认 实现

5. What is the difference between managed code and unmanaged code?

托管代码被编译成MSIL后在.net framework下运 行,同操作系统底层的交互都交给.net framework 来处理。

非托管代码就是脱离了.net framework的管制,直 接同底层API打交道,自己管理自己的内存和安全 机制等东西。而托管代码就不管这些,全都由.net framework去完成。