

浙大20秋JAD W3作业

 判断题 10	A. 单选题 14	 程序填空题 1	 编程题 1
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2-1 Which one below is a feature of Java? (2分)

- ☐ A. Multi-inheritance
- ☐ B. Virtual inheritance
- ☒ C. Generic programming
- ☐ D. Operator overloading

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2-1 答案正确 (2 分)

2-2 Given code below: (2分)

```
interface I {
    void f();
}
class C {
    void f() {};
```

Which code below compiles?

- ☐ A.

```
class A extends I {
    void f();
}
```
- ☒ B.

```
interface A extends I {
    void f();
}
```
- ☐ C.

```
class A extends C implements I {}
```
- ☐ D.

```
interface A implements I {
    void f();
}
```

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2-2 答案正确 (2 分)

2-3 Given code below: (2分)

```
class Shape {}
class Circle extends Shape() {}
class Rectangle extends Shape() {}
```

Which one below is NOT able to accept both `List<Circle>` and `List<Rectangle>` ?

- ☐ A. `void f(List<? extends Shape> list);`
- ☒ B. `void f(List<Shape> list);`
- ☐ C. `void f(List list);`
- ☐ D. `void f(List<?> list);`

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2-3 答案正确 (2 分)

2-4 Given code below: (2分)

```
List<String> ls = new ArrayList<String>();
List<Object> lo = ls;
lo.add(new Object());
String s = ls.get(0);
```

Which statement below is correct?

- ☒ A. It does not compile
- ☐ B. It compiles but exception raises at line 2

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2-4 答案正确 (2 分)

2-5 For code below: (2分)

```
class DataServer extends Server {
    public String serverName;
    public DataServer() {
        serverName = "Customer Service";
        super(serverName);
    }
}
```

Which statement is right?

- ☐ A. Code can pass the compilation
- ☐ B. Code can pass the compilation but a fault would happen in creating object of DataServer
- ☐ C. Code can NOT pass the compilation for the error in the 2nd line
- ☒ D. Code can NOT pass the compilation for the error in the 5th line

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2-5 答案正确 (2 分)

2-6 If a method defined in a derived class has the same name, return type and parameters with the base one, we call this situation as: () (2分)

- ☐ A. overload
- ☒ B. override
- ☐ C. inheritance
- ☐ D. construction

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2-6 答案正确 (2 分)

2-7 What will happen if you try to compile and execute B' s main() method? () (2分)

```
class A {
    int i;
    A(int i) {    this.i = i * 2;    }
}
class B extends A {
    public static void main(String[] args) {
        B b = new B(2);
    }
    B(int x) {
        System.out.println(x);
    }
}
```

- ☐ A. The instance variable i is set to 4
- ☐ B. The instance variable i is set to 2
- ☐ C. The instance variable i is set to 0
- ☒ D. This code will not compile

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2-7 答案正确 (2 分)

2-8 About the Java language, which statement below is NOT correct? (2分)

- ☐ A. A variable of byte type occupies one byte
- ☐ B. A class can implement more than one interface
- ☒ C. A class can inherit from more than one super class
- ☐ D. All arrays are to be created dynamically.

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2-8 答案正确 (2 分)

2-9 Given code below: (2分)

```
interface I { void f(); }
abstract class C implements I {}
```

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- ☐ A. `class A extends I { void f(); }`
- ☒ B. `interface A extends I { void f(); }`
- ☐ C. `class A extends C implements I {}`
- ☐ D. `interface A implements I { void f(); }`

2-9

答案正确 (2 分)

2-10

Given the following code how could you invoke the Base constructor that will print out the string "base constructor";

(2分)

```
class Base{
    Base(int i){ System.out.println("base constructor");    }
}
public class BaseSup extends Base{
    public static void main(String argv[]){
        BaseSup s= new BaseSup();
        //One
    }
    BaseSup(){
        //Two
    }
}
```

- ☐ A. At the line after //One put `Base(10);`
- ☐ B. At the line after //One put `super(10);`
- ☒ C. At the line After //Two put `super(10);`
- ☐ D. At the line After //Two put `this (10);`

2-10

答案正确 (2 分)

2-11

Given code below:

(2分)

```
Java class A { private int i=baz(); public int baz() { System.out.print("A"); return 0; } } class B
extends A { private int i=baz(); public int baz() { System.out.print("B"); return 10; } public static void
main(String[] args) { A a = new B(); }}
```

What will happen when you compile and run this program?

- ☐ A. The program compiles, runs, and output AB.
- ☒ B. The program compiles, runs, and output BB.
- ☐ C. The program compiles, runs, and output AA.
- ☐ D. The program does not compile.

2-11

答案正确 (2 分)

2-12

Given:

(2分)

```
public class AnimalHouse<E> {
    private E animal;
    public void setAnimal(E x) {
        animal = x;
    }
    public E getAnimal() {
        return animal;
    }
}
public class Animal{}
public class Cat extends Animal {}
public class Dog extends Animal {}
```

Which statement below compiles?

- ☐ A. `AnimalHouse<Animal> house = new AnimalHouse<Cat>();`
- ☐ B. `AnimalHouse<Cat> house = new AnimalHouse<Animal>();`
- ☐ C. `AnimalHouse<?> house = new AnimalHouse<Cat>(); house.setAnimal(new Cat());`
- ☒ D. `AnimalHouse house = new AnimalHouse(); house.setAnimal(new Dog());`



2-12

答案正确 (2 分)

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```
abstract class Base{
    abstract public void myfunc();
    public void another(){
        System.out.println("Another method");
    }
}

public class Abs extends Base{
    public static void main(String argv[]){
        Abs a = new Abs();
        a.amethod();
    }
    public void myfunc(){
        System.out.println("My Func");
    }
    public void amethod(){
        myfunc();
    }
}
```

☒A. The code will compile and run, printing out the words "My Func"

☐B. The compiler will complain that the Base class has non abstract methods

☐C. The code will compile but complain at run time that the Base class has non abstract methods

☐D. The compiler will complain that the method myfunc in the base class has no body, nobody at all to looove it

2-13

答案正确

(2 分)

2-14

The Person, Student and Teacher are class names. These classes have the following inheritance relation as shown below:

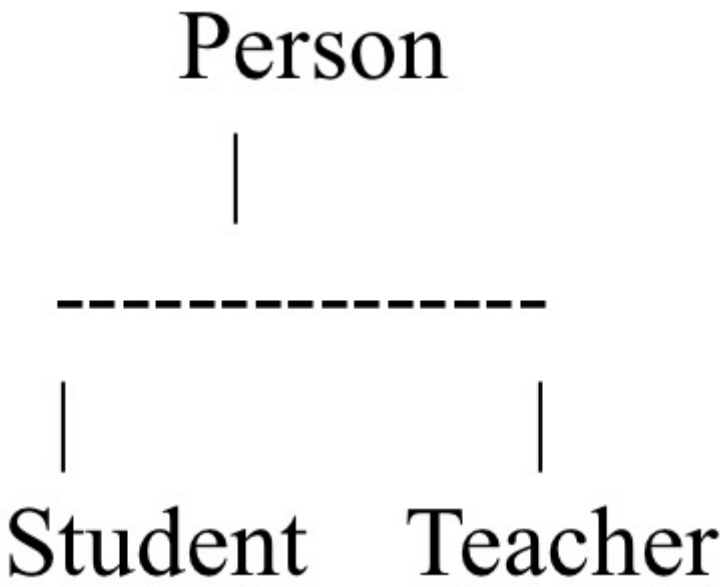
(2分)

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There is the following expression in a Java source file:

```
Person p = new Teacher();
```

Which of the following expressions return true?

- ☒A. p instanceof Teacher
- ☐B. p instanceof Student
- ☐C. None of them returns false
- ☐D. None of them returns true

2-14

答案正确

(2 分)

