

Q>

Given:

```
abstract public class Employee {
    protected abstract double getSalesAmount();
    public double getCommision() {
        return getSalesAmount() * 0.15;
    }
}
class Sales extends Employee {
    17. // insert method here
}
```

Which two methods, inserted independently at line 17, correctly complete the Sales class? (Choose two.)

- A. double getSalesAmount() { return 1230.45; }
- B. public double getSalesAmount() { return 1230.45; }
- C. private double getSalesAmount() { return 1230.45; }
- D. protected double getSalesAmount() { return 1230.45; }

Answer: BD

Q>

Given this code from Class B:

```
25. A a1 = new A();
26. A a2 = new A();
27. A a3 = new A();
28. System.out.println(A.getInstanceCount());
```

What is the result?

```
1. public class A{
2.
3. private int counter = 0;
4.
5. public static int getInstanceCount() {
6.     return counter;
7. }
8.
9.     public A() {
10.         counter++;
11. }
12.
13.}
```

- A. Compilation of class A fails.
- B. Line 28 prints the value 3 to System.out.
- C. Line 28 prints the value 1 to System.out.
- D. A runtime error occurs when line 25 executes.
- E. Compilation fails because of an error on line 28.

Answer: A

QUESTION

Given:

```
1. public class A {
2.     public void doit() {
3.     }
4.     public String doit() {
5.         return "a";
6.     }
7.     public double doit(int x) {
```

```

8.          return 1.0;
9.          }
10.}

```

What is the result?

- A. An exception is thrown at runtime.
- B. Compilation fails because of an error in line 7.
- C. Compilation fails because of an error in line 4.
- D. Compilation succeeds and no runtime errors with class A occur.

Answer: C

#### QUESTION

Which three code fragments, added individually at line 29, produce the output 100?  
(Choose three.)

```

class Inner {
    private int x;
    public void setX( int x ){ this.x = x; }
    public int getX(){ return x;}
}
class Outer {
    private Inner y;
    public void setY( Inner y ){ this.y = y; }
    public Inner getY() { return y; }
}
public class Gamma {
    public static void main(String[] args) {
        Outer o = new Outer();
        Inner i = new Inner();
        int n = 10;
        i.setX(n);
        o.setY(i);
        // insert code here 29
        System.out.println(o.getY().getX());
    }
}

```

- A. n = 100;
- B. i.setX( 100 );
- C. o.getY().setX( 100 );
- D. i = new Inner(); i.setX( 100 );
- E. o.setY( i ); i = new Inner(); i.setX( 100 );
- F. i = new Inner(); i.setX( 100 ); o.setY( i );

Answer: BCF

Q>

```

public class Base {
    public static final String F00 = "foo";
    public static void main(String[] args) {
        Base b = new Base();
        Sub s = new Sub();

        System.out.print(Base.F00);//foo
        System.out.print(Sub.F00);//bar
        System.out.print(b.F00);//foo
        System.out.print(s.F00);//bar
        System.out.print(((Base) s).F00);//foo
    }
}
class Sub extends Base {

```

```
        public static final String F00 = "bar";  
    }
```

What is the result?

- A. foofoofoofoofoo
- B. foobarfoobarbar
- C. foobarfoofoofoo
- D. foobarfoobarfoo
- E. barbarbarbarbar
- F. foofoofoobarbar
- G. foofoofoobarfoo

Answer: D

Given:

```
1. class Mammal {  
2. }  
3.  
4. class Raccoon extends Mammal { //Raccoon IS-A Mammal, Raccoon HAS-A mammal  
5.     Mammal m = new Mammal();  
6. }  
7.  
8. class BabyRaccoon extends Mammal { //BabyRaccoon IS-A Mammal  
9. }  
10.
```

Which four statements are true? (Choose four.)

- A. Raccoon is-a Mammal.
- B. Raccoon has-a Mammal.
- C. BabyRaccoon is-a Mammal.
- D. BabyRaccoon is-a Raccoon.
- E. BabyRaccoon has-a Mammal.
- F. BabyRaccoon is-a BabyRaccoon.

Answer: ABCF

Q>

Given

```
public class Hello {  
    String title;  
    int value;  
    public Hello() {  
        title += " World";  
    }  
    public Hello(int value) {  
        this.value = value;  
        title = "Hello";  
        Hello();  
    }  
}
```

and:

```
Hello c = new Hello(5);  
System.out.println(c.title);
```

What is the result?

- A. Hello
- B. Hello World
- C. Compilation fails.
- D. Hello World 5
- E. The code runs with no output.

F. An exception is thrown at runtime.

Answer: C