

Question 1.

We have the following organization of classes.

```
class Parent { }  
class DerivedOne extends Parent { }  
class DerivedTwo extends Parent { }
```

Which of the following statements is correct for the following expression.

```
Parent p = new Parent();  
DerivedOne d1 = new DerivedOne();  
DerivedTwo d2 = new DerivedTwo();  
p = d1;
```

- A. Illegal both compile and runtime,
- B. Legal at compile time, but fails at runtime,
- C. Legal at compile and runtime

Question 2.

We have the following organization of classes.

```
class Parent { }  
class DerivedOne extends Parent { }  
class DerivedTwo extends Parent { }
```

Which of the following statements is correct for the following expression.

```
Parent p = new Parent();  
DerivedOne d1 = new DerivedOne();  
DerivedTwo d2 = new DerivedTwo();  
d1 = d2;
```

- A. Illegal both compile and runtime,
- B. Legal at compile time, but fails at runtime,
- C. Legal at compile and runtime

Question 3.

We have the following organization of classes.

```
class Parent { }  
class DerivedOne extends Parent { }  
class DerivedTwo extends Parent { }
```

Which of the following statements is correct for the following expression.

```
Parent p = new Parent();  
DerivedOne d1 = new DerivedOne();  
DerivedTwo d2 = new DerivedTwo();  
d1 = (DerivedOne)d2;
```

- A. Illegal both compile and runtime,
- B. Legal at compile time, but fails at runtime,
- C. Legal at compile and runtime

Question 4.

We have the following organization of classes.

```
class Parent { }  
class DerivedOne extends Parent { }  
class DerivedTwo extends Parent { }
```

Which of the following statements is correct for the following expression.

```
Parent p = new Parent();  
DerivedOne d1 = new DerivedOne();  
DerivedTwo d2 = new DerivedTwo();  
d1 = (DerivedOne)p;
```

- A. Illegal both compile and runtime,
- B. Legal at compile time, but fails at runtime,
- C. Legal at compile and runtime

Question 5.

We have the following organization of classes.

```
class Parent { }  
class DerivedOne extends Parent { }  
class DerivedTwo extends Parent { }
```

Which of the following statements is correct for the following expression.

```

Parent p = new Parent();
DerivedOne d1 = new DerivedOne();
DerivedTwo d2 = new DerivedTwo();
p = (Parent)d1;

```

- A. Illegal both compile and runtime,
- B. Legal at compile time, but fails at runtime,
- C. Legal at compile and runtime

Question 6.

With which I/O operation can we append. update a file?

- A. RandomAccessFile(),
- B. OutputStream()
- C. DataOutputStream()

Question 7.

For which of the following code will produce 'test' as output on the screen?

- A.

```
int x=10.0;
if ( x==10.0) { System.out.println("test"); }
```
- B.

```
int x=012;
if ( x==10.0) { System.out.println("test"); }
```
- C.

```
int x=10f;
if ( x==10.0) { System.out.println("test"); }
```
- D.

```
int x=10L;
if ( x==10.0) { System.out.println("test"); }
```

Question 8.

Given this class?

```

class Loop {
public static void main( String [] agrs) {
int x=0; int y=0;
outer: for (x=0; x<100;x++) {
middle: for (y=0;y<100;y++) {
System.out.println("x=" + x + "; y=" + y);
if (y==10) { <<<

>>> } } }
} //main
} //class

```

1. *Journal of the American Medical Association*, 1997; 278: 1039-1044.

The question is which code must replace the `<<>>` to finish the outerloop?

- A. continue middle;
- B. break outer;
- C. break middle;
- D. continue outer;
- E. none of these...

Question 9.

Which component cannot be added to a container?

- A. Component
- B. Menu
- C. Container
- D. Applet
- E. Button

Question 10.

What does it mean when the `handleEvent()` returns the true boolean?

- A. the event will be handled by the component,
- B. the action() method will handle the event,
- C. the event will be handled by the super.handleEvent()
- D. do nothing

To subm