Certification java Mme Eya Cheikh

QCM1Certification

1.

```
Given:
1. class Atom {
       Atom() { System.out.print("atom "); }
3. }
4. class Rock extends Atom {
5.
       Rock(String type) { System.out.print(type); }
6. }
7. public class Mountain extends Rock {
       Mountain() {
9.
          super("granite ");
10.
           new Rock("granite ");
11.
      }
12
       public static void main(String[] a) { new Mountain(); }
13. }
What is the result?

    A. Compilation fails.

O B. atom granite
O. C. granite granite

    D. atom granite granite

    E. An exception is thrown at runtime.

    F. atom granite atom granite

2.
Given:
1. public class Blip {
       protected int blipvert(int x) { return 0; }
4. class Vert extends Blip {
5.
      // insert code here
6. }
Which five methods, inserted independently at line 5, will compile? (Choose five.)
A public int blipvert(int x) { return 0; }
□ B. private int blipvert(int x) { return 0; }
C. private int blipvert(long x) { return 0; }
□ D. protected long blipvert(int x) { return 0; }
☐ E. protected int blipvert(long x) { return 0; }
F. protected long blipvert(long x) { return 0; }
☐ G. protected long blipvert(int x, int y) { return 0; }
```

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3.
 Given:
 interface TestA { String toString(); }
 public class Test {
     public static void main(String[] args) {
          System.out.println(new TestA() {
               public String toString() { return "test"; }
          });
      }
 }
 What is the result?
 O A. test
 O B. null

    C. An exception is thrown at runtime.

    D. Compilation fails because of an error in line 1.

    E. Compilation fails because of an error in line 4.

    F. Compilation fails because of an error in line 5.

4.
Given:

    public abstract class Shape {

        private int x;
3.
        private int y;
4.
       public abstract void draw();
 5.
        public void setAnchor(int x, int y) {
6.
            this.x = x;
7.
            this.y = y;
8.
        }
Which two classes use the Shape class correctly? (Choose two.)
A public class Circle implements Shape {
           private int radius;
☐ B. public abstract class Circle extends Shape {
           private int radius;
C. public class Circle extends Shape {
           private int radius;
           public void draw();
D. public abstract class Circle implements Shape {
           private int radius;
           public void draw();
      }
```

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☐ E. public class Circle extends Shape {
           private int radius;
           public void draw() {/* code here */}
 F. public abstract class Circle implements Shape {
           private int radius;
           public void draw() {/* code here */}
5.
 Given:
 5. class Building { }
 6. public class Barn extends Building {
 7. public static void main(String[] args) {
            Building build1 = new Building();
 9.
            Barn barn1 = new Barn();
 10.
           Barn barn2 = (Barn) build1;
           Object obj1 = (Object) build1;
 11.
           String str1 = (String) build1;
           Building build2 = (Building) barn1;
 13.
 14.
 15. }
 Which is true?

    A. If line 10 is removed, the compilation succeeds.

    B. If line 11 is removed, the compilation succeeds.

 C. If line 12 is removed, the compilation succeeds.

    D. If line 13 is removed, the compilation succeeds.

    E. More than one line must be removed for compilation to succeed.
```