

1. Given:

```
import java.io.*;
class MyResource1 implements AutoCloseable {
    public void close()throws IOException{ // A1
        System.out.print("1 "); }
}
class MyResource2 implements Closeable {
    public void close()throws Exception { // A2
        System.out.print("2 "); }
}
public class Triangle {
    public static void main(String[] args) throws IOException{
        try ( MyResource1 r1 = new MyResource1(); // B1
              MyResource2 r2 = new MyResource2(); ) { // B2
            System.out.print("t ");
        }
        finally {
            System.out.print("f ");
        }
    }
}
```

What is the result?

- A) t 2 1 f
- B) t 1 2 f
- C) Compilation fails due to errors on lines A1 and B1.
- D) Compilation fails due to errors on lines A2 and B2.

2. Given:

```
1. import java.util.*;
2. public class Forever {
3.     public static void main(String[] args) {
4.         List x1 = new ArrayList();
5.         List x2 = new ArrayList<>();
6.     }
7. }
```

What happens when you compile the code?

- A) Compilation succeeds.
- B) Compilation fails due to multiple errors.
- C) Compilation fails due to an error on line 4.
- D) Compilation fails due to an error on line 5.

3. Which is most closely associated with the object-oriented design concept known as "has-a"?

- A) DAO
- B) factory
- C) adapter
- D) composition

4. Given

```
import java.util.*;
public class MyDates {
    public static void main(String[] args) {
        Calendar c = Calendar.getInstance(); // Line A
    }
}
```

Which two statements are true?

- A) Line A is an example of using the DAO pattern.
- B) Line A is an example of using the factory pattern.
- C) Line A is an example of using the singleton pattern.
- D) `java.util.Calendar` could be an abstract class.
- E) Line A could be replaced with: `Calendar c = new Calendar();`

5. Which method can be used for establishing a connection to a JDBC 4.1 data source?

- A) `Class.getConnection()`
- B) `DriverManager.forName()`
- C) `DriverManager.getConnection()`
- D) `DriverManager.registerDriver()`

6. Given this code fragment:

```
// assume "myURL" is a valid URL
// assume that the initial value of a saving account is 0
try {
    Connection conn = DriverManager.getConnection(myURL);
    Statement s = conn.createStatement();
    // execute SQL to add 100 to the account
    // execute more SQL to add 300 to the account
    conn.commit();
} catch (Exception e) {
    e.printStackTrace();
}
```

What is the result?

- A) An exception is thrown at runtime.
- B) The account's value is not changed.
- C) The account's value is incremented by 300.
- D) The account's value is incremented by 400.

7. Implementing which method will properly extend `java.util.ListResourceBundle`?

- A) `getContents()`
- B) `addResources()`
- C) `getBundle()`
- D) `getKeys()`

Answers:

1. D
2. A
3. D
4. B, D
5. C
6. D
7. A