# Module5-I/O 流

# 一、选择题

```
Question 1
Given:
10. class MakeFile {
11. public static void main(String[] args) {
12. try {
13. File directory = new File("d");
14. File file = new File(directory,"f");
15. if(!file.exists()) {
16. file.createNewFile();
17. }
18. } catch (IOException e) {
19. e.printStackTrace();
20. }
21. }
22. }
The current directory does NOT contain a description.
```

The current directory does NOT contain a directory named "d." Which three are true? (Choose three.)

- A. Line 16 is never executed.
- B. An exception is thrown at runtime.
- C. Line 13 creates a File object named "d."
- D. Line 14 creates a File object named "f."
- E. Line 13 creates a directory named "d" in the file system.
- F. Line 16 creates a directory named "d" and a file 'f' within it in the file system.
- G. Line 14 creates a file named "f" inside of the directory named "d" in the file system.

Answer: BCD

#### Ouestion 2

When comparing java.io.BufferedWriter to java.io.FileWriter, which capability exists as a method in only one of the two?

- A. closing the stream
- B. flushing the stream
- C. writing to the stream
- D. marking a location in the stream
- E. writing a line separator to the stream

Answer: E

### Ouestion 3

Which three concerning the use of the java.io. Serializable interface are true? (Choose three.)

- A. Objects from classes that use aggregation cannot be serialized.
- B. Art object serialized on one JVM can be successfully deserialized on a different JVM.
- C. The values in fields with the volatile modifier will NOT survive serialization and describilization.
- D. The values in fields with the transient modifier will NOT survive serialization and describination.
- E. It is legal to serialize an object of a type that has a supertype that does NOT implement java.io. Serializable.

Answer: BDE

### Question 4

Assuming that the serializeBanana() and the deserializeBanana() methods will correctly use Java serialization and given:

- 13. import java.io.\*;
- 14. class Food implements Serializable {int good = 3;}
- 15. class Fruit extends Food {int juice = 5;}
- 16. public class Banana extends Fruit {
- 17. int yellow = 4;
- 18. public static void main(String [] args) {
- 19. Banana b = new Banana(); Banana b2 = new Banana();
- 20. b.serializeBanana(b); // assume correct serialization
- 21. b2 = b.deserializeBanana(); // assume correct
- 22. System.out.println("restore "+b2.yellow+ b2.juice+b2.good);
- 24. }
- 25. // more Banana methods go here
- 50.}
- 'What is the result?
- A. restore 400
- B. restore 403
- C. restore 453
- D. Compilation fails.
- E. An exception is thrown at runtime.

Answer: C

#### Question 5

Assuming that the serializeBanana2() and the deserializeBanana2() methods will correctly use Java serialization and given:

- 13. import java.io.\*;
- 14. class Food (Food() { System.out.print("1"); } }
- 15. class Fruit extends Food implements Serializable {

```
16. Fruit() { System.out.print("2"); } }
17. public class Banana2 extends Fruit { int size = 42;
18. public static void main(String [] args) {
19. Banana2 b = new Banana2();
20. b.serializeBanana2(b);
                                                 // assume correct serialization
21. b = b.deserializeBanana2(b);
                                                // assume correct
22. System.out.println(" restored "+ b.size + " "); }
23. // more Banana2 methods
24. }
What is the result?
A. Compilation fails.
B. 1 restored 42
C. 12 restored 42
D. 121 restored 42
E. 1212 restored 42
F. An exception is thrown at runtime.
Answer: D
Question 6
Given:
10. public class Foo implements java.io. Serializable {
11. private int x;
12. public int getX() { return x; }
12.publicFoo(int x){this.x=x; }
13. private void writeObject( ObjectOutputStream s)
14. throws IOException {
15. // insert code here
16. }
17. }
Which code fragment, inserted at line 15, will allow Foo objects to be
correctly serialized and deserialized?
A. s.writeInt(x);
B. s.serialize(x);
C. s.writeObject(x);
D. s.defaultWriteObject();
Answer: D
Ouestion 7
Click the Exhibit button.
1. import java.io.*;
2. public class Foo implements Serializable {
3. public int x, y;
4. public Foo( int x, int y) { this.x = x; this.y = y; }
5.
```

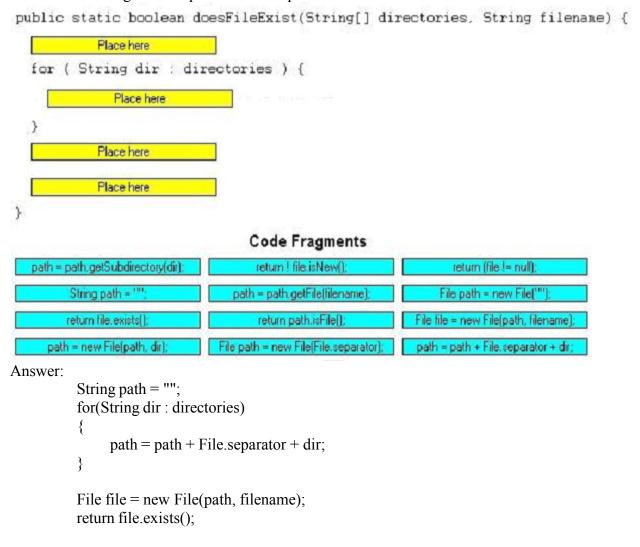
```
6. private void writeObject( ObjectOutputStream s)
7. throws IOException {
8. s.writeInt(x); s.writeInt(y)
9. }
10.
11. private void readObject( ObjectInputStream s)
12. throws IOException, ClassNotFoundException {
13.
14. // insert code here
15.
16. }
17. }
Which code, inserted at line 14, will allow this class to correctly
serialize and deserialize?
A. s.defaultReadObject();
B. this = s.defaultReadObject();
C. y = s.readInt(); x = s.readInt();
D. x = s.readInt(); y = s.readInt();
Answer: D
Ouestion 8
Given:
12. import java.io.*;
13. public class Forest implements Serializable {
14. private Tree tree = new Tree();
15. public static void main(String [] args) {
16. Forest f= new Forest();
17. try {
18. FileOutputStream fs = new FileOutputStream("Forest.ser");
19. ObjectOutputStream os = new ObjectOutputStream(fs);
20. os.writeObject(f); os.close();
21. } catch (Exception ex) { ex.printStackTrace(); }
22. } }
23.
24. class Tree { }
What is the result?
A. Compilation fails.
B. An exception is thrown at runtime.
C. An instance of Forest is serialized.
D. A instance of Forest and an instance of Tree are both serialized.
```

Answer: B

# 二、拖拽题:

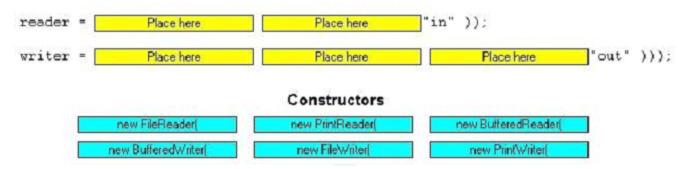
### Question 1:

The doesFileExist method takes an array of directory names representing a path from the root filesystem and a file name. The method returns true if the file exists, false if does not. Place the code fragments in position to complete this method.



### Question 2:

Chain these constructors to create objects to read from a file named "in" and to write to a file named "out."



Answer: reader=new BufferedReader(new FileReader("in"));
writer=new BufferedWriter(new PrintWriter(new FileWriter("out")));
或 writer=new PrintWriter(new BufferedWriter(new FileWriter("out")));

### Question 3:

Place the code fragments into position to use a BufferedReader to read in an entire text file.

```
class PrintFile {
     public static void main(String[] args){
       BufferedReader buffReader = null;
       //more code here to initialize buffReader
       try {
          String temp;
                            Place here
                                                       Place here
          while(
            System.out.println(temp);
                           Place here
         catch
          e.printStackTrace();
     }
  }
                                   Code Fragments
                  (temp = buffReader.readLine())
                                                   && buffReader.hasNext()
                  (temp = buffReader.nextLine())
                                                     (IOException e) {
                                                 (FileNotFoundException e)
                           != null
Answer:
                  try{
                       String temp;
                       while((temp=buffReader.readLine())!=null){
                            System.out.println(temp);
                  }catch(IOException e){
                       e.printStackTrace();
```

## Question 4:

Place the Fragments into the program, so that the program will get lines from a text file, display them, and then close all the resources.

```
Program
                                                                   Code Fragments
 import java.io.*
                                                                   BufferedReader
 public class ReadFile {
                                                                    StreamReader
   public static void main(String [] args) {
                                                                      FileReader
               ? = new File("MyText.txt");
        File
                                                                       readLine
            Place here
                           ? = new
                                                        (x1);
                                           Place here
                           x4 = new
                                                                        readIn
            Place here
                                           Place here
                                                        (x2):
        String x3 = null;
                                                                         read
                                              ()) != null) {
        while (( x3 = ? .
                                 Place here
                                                                      closeFile
          System.out.println(x3):
        Place here
                                                                        close
      } catch(Exception ex)
                                                                        x2
          ex printStackTrace();
                                                                        x4
 }
                                           Done
Answer:
         import java.io.*;
         public class ReadFile {
              public static void main(String[] args) {
                  try{
                       File x1 = new File("MyText.txt");
                       feredReader x4 = new BufferedReader(x2);
                       String x3 = null;
                       while((x3 = x4.readLine()) != null){
                            System.out.println(x3);
                       x4.close();
                  }catch(Exception ex){
                       ex.printStackTrace();
              }
         }
```