12. INTRODUCTION TO I/O

Question **1**
Complete
Marked out of 1.00
Flag question

Given the following,

```
public class BoolTest {
 public static void main(String[] args) {
  Boolean b1 = new Boolean("false");
  boolean b2;
  b2 = b1.booleanValue();
  if (!b2) {
   b2 = true;
   System.out.print("x ");
  }
  if (b1 & b2) {
   System.out.print("y ");
  }
  System.out.println("z");
 }
}
```

What is the result?

- a. z
- b. y z
- c. x y z
- d. Compilation fails.
- e. x z

Question **2**
Complete
Marked out of 1.00
Flag question

Given A.java contains

class A {public static void main(String... args) {}} // 1

and B.java contains

class B {protected static void main(String[] args) {}} // 2

What is the result of attempting to compile each of the two class declarations and invoke each main method from the command line?

- a. An attempt to run A from the command line fails.
- b. An attempt to run B from the command line fails.
- c. Compile-time error at line 1.
- d. Compile-time error at line 2.

Question **3**
Complete
Marked out of 1.00
Flag question

What will be the output of the following Java program?

```
1.  class Output
2.  {
3.     public static void main(String args[])
4.     {
5.   char a = (char) 98;
6.          a = Character.toUpperCase(a);
7.          System.out.print(a);
8.     }
9.  }
```

- a. b
- b. B
- c. c
- d. C

Question **4**
Complete
Marked out of 1.00
Flag question

What will be the output of the following Java program?

```
1.  class Output
2.  {
3.     public static void main(String args[])
4.     {
5.        Integer i = new Integer(257);
6.        float x = i.floatValue();
7.        System.out.print(x);
8.     }
9.  }
```

a. 257
b. 1
c. 257
d. 0

Question **5**
Complete
Marked out of 1.00
Flag question

Given the below mentioned code and the command-line invocation as,

java CommandArgs 1 2 3 4

```
public class CommandArgs {
 public static void main(String[] args) {
  String s1 = args[1];
  String s2 = args[2];
  String s3 = args[3];
  String s4 = args[4];
  System.out.print(" args[2] = " + s2);
 }
}
```

What is the result?

a. args[2] = 2
b. args[2] = 1
c. args[2] = 3
d. An exception is thrown at runtime

Question **6**
Complete
Marked out of 1.00
Flag question

Given the following code:

```
public class Foo {
 public static void main(String[] args) {
  System.out.println(args[1]);
 }
}
```

If the above code is compiled and run as follows

java Foo Apples 9 8 7

What would be the output?

a. Foo
b. java
c. 9
d. Apples

Question **7**
Complete
Marked out of 1.00
Flag question

A program uses the FileWriter constructor with the string "newFile.txt". What happens if "newFile.txt" already exists?

a. An exception is thrown.
b. The existing file is erased and replace with a new, empty one.
c. The constructor returns null.
d. The program exits.

Question **8**
Complete
Marked out of 1.00
Flag question

Given the below mentioned code
and the command-line invocation as,

java CommandArgsThree 1 2 3

```
public class CommandArgsThree {
 public static void main(String[] args) {
  String[][] argCopy = new String[2][2];
  int x;
  argCopy[0] = args;
  x = argCopy[0].length;
  for (int y = 0; y < x; y++) {
   System.out.print(" " + argCopy[0][y]);
  }
 }
}
```

What is the result?

- a. 1 2
- b. 1 2 3
- c. 0 0
- d. 0 0 0

Question **9**
Complete
Marked out of 1.00
Flag question

Can data flow through a given stream in both directions?

- a. No; a stream has one direction only, input or output.
- b. Yes; only one stream is needed to read and write a file.
- c. Yes; but only one direction at a time.
- d. No; streams only work for output.

Question **10**
Complete
Marked out of 1.00
Flag question

Given the following code:

```
public class Test {
 public static void main(String[] args) {
  System.out.println(args.length);
 }
}
```

If the above code is compiled and run as follows
java Test Hello 1 2 3
What would be the output?

- a. 2
- b. 4
- c. 6
- d. 5

Question **11**
Complete
Marked out of 1.00
Flag question

Given the below mentioned code and the command-line invocation as,
java CommandArgsFive 9 8 7 6

```
public class CommandArgsFive {
 public static void main(String[] args) {
  Integer i1 = new Integer(args[1]);
  Integer i2 = new Integer(args[2]);
  Integer i3 = new Integer(args[3]);
  Integer i4 = new Integer(args[4]);
  System.out.print(" args[3] = " + i3);
 }
}
```

What is the result?

- a. args[3] = null
- b. args[3] = 8
- c. args[3] = 7
- d. An exception is thrown at runtime

Question **12**
Complete
Marked out of 1.00
Flag question

Which of these is a super class of Character wrapper?

- a. Digits
- b. Number
- c. Float
- d. Long

Question **13**
Complete
Marked out of 1.00
Flag question

Which one of the following options correctly reads a line of string from the console?

a. BufferedReader br =new BufferedReader(new InputStreamReader(System.in));
String str = br.readLine();

b. String str = System.in.readLine();
String str; System.in.scanf(str);

c. InputStreamReader isr = new InputStreamReader (new BufferedReader(System.in));
String str = isr.readLine();

d. BufferedReader br = new BufferedReader(System.in);
String str = br.readLine();

Question **14**
Complete
Marked out of 1.00
Flag question

What will be the output of the following Java program?

```
1.  class Output
2.  {
3.     public static void main(String args[])
4.     {
5.        String str = "true";
6.        boolean x = Boolean.valueOf(str);
7.        System.out.print(x);
8.     }
9.  }
```

a. Runtime Error
b. Compilation Error
c. True
d. False

Question **15**
Complete
Marked out of 1.00
Flag question

What is the ancestor class of all character-oriented input streams?

a. BufferedReader
b. FileReader
c. Reader
d. WeeklyReader

Question **16**
Complete
Marked out of 1.00
Flag question

Given the following,

```
1. public class WrapTest3 {
2.    public static void main(String [] args) {
3.      String s = "98.6";
4.      // insert code here
5.    }
6. }
```

Which line inserted at line 4 will cause compiler errors?

a. float f4 = Float.parseFloat(1.23f);
b. float f6 = (float) Double.parseDouble("3.14");
c. float f5 = Float.valueOf(s).floatValue();
d. float f3 = new Float(3.14f).floatValue();

Question **17**
Complete
Marked out of 1.00
Flag question

What will be the output of the following Java program?

```
1.  class Output
2.  {
3.     public static void main(String args[])
4.     {
5.    Double i = new Double(257.578123456789);
6.        float x = i.floatValue();
7.        System.out.print(x);
8.     }
9.  }
```

a. 0
b. 257.5781235
c. 257
d. 257.57812

Question **18**
Complete
Marked out of 1.00
Flag question

Given the following,

```
1.  public class WrapTest2 {
2.    public static void main(String [] args) {
3.      Long b = new Long(42);
4.      int x = Integer.valueOf("345");
5.      int x2 = (int) Integer.parseInt("345", 8);
6.      int x3 = Integer.parseInt(42);
7.      int x4 = Integer.parseInt("42");
8.      int x5 = b.intValue();
9.    }
10. }
```

Which two lines will cause compiler errors?

- a. Line 7 and 8
- b. Line 5 and 6
- c. Line 3 and 4
- d. Line 4 and 6

Question **19**
Complete
Marked out of 1.00
Flag question

Which of these is a wrapper for simple data type char?

- a. Integer
- b. String
- c. Float
- d. Character

Question **20**
Complete
Marked out of 1.00
Flag question

What is the DataInputStream method that reads an int value?

- a. ReadInt()
- b. ReadInteger()
- c. read()
- d. readInt()

Question **21**
Complete
Marked out of 1.00
Flag question

Choose the correct option to fill the below code

```
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
public class Test
{
 public static void main(String[] args) throws IOException
 {
 BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
 Integer a = //Fill your code to read value for this.
 System.out.println(name);
 }
}
```

- a. Int.parseInteger(br.readLine());
- b. Integer.parseInt(br.readLine());
- c. Integer.parseInteger(br.read());
- d. Integer.parseInteger(br.readLine());

Question **22**
Complete
Marked out of 1.00
Flag question

Given the below mentioned code
and the command-line invocation as,
java CommandArgsTwo 1 2 3

```
public class CommandArgsTwo {
 public static void main(String[] argh) {
  String[] args;
  int x;
  x = argh.length;
  for (int y = 1; y <= x; y++) {
   System.out.print(" " + argh[y]);
  }
 }
}
```

What is the result?

- a. 1 2 3
- b. 0 0 0
- c. An exception is thrown at runtime
- d. 0 1 2

Question **23**
Complete
Marked out of 1.00
Flag question

Given the below mentioned code and the command-line invocation as,

java CommandArgsFour 9 6 3

```
public class CommandArgsFour {
 public static void main(String[] argh) {
  String[] args;
  int a;
  a = argh.length;
  for (int b = 1; b < a; b++) {
   System.out.print(" " + argh[b]);
  }
 }
}
```

What is the result?

a. 9 6
b. null null
c. 6 3
d. An exception is thrown at runtime

Question **24**
Complete
Marked out of 1.00
Flag question

What will be the output of the following Java program?

```
1.  class Output
2.  {
3.      public static void main(String args[])
4.      {
5.          Integer i = new Integer(257);
6.          byte x = i.byteValue();
7.          System.out.print(x);
8.      }
9.  }
```

a. 257
b. 0
c. 1
d. 256

Question **25**
Complete
Marked out of 1.00
Flag question

The input/output package usually used with Java is:

a. java.io
b. java.inout
c. java.file
d. java.input

Question **26**
Complete
Marked out of 1.00
Flag question

What will be the output of the following Java program?

```
1.  class Output
2.  {
3.      public static void main(String args[])
4.      {
5.          Long i = new Long(256);
6.          System.out.print(i.hashCode());
7.      }
8.  }
```

a. 256
b. 257
c. 256
d. 256

Question **27**
Complete
Marked out of 1.00
Flag question

Which of the following opens the file "myData.stuff" for Input?

a. FileInputStream fis = new FileInputStream(new BufferedInputStream("myData.stuff"))
b. FileInputStream fis = new FileInputStream("myData.stuff")
c. DataInputStream dis = new DataInputStream("myData.stuff")
d. FileInputStream fis = new FileInputStream("myData.stuff", true)

Question **28**
Complete
Marked out of 1.00
Flag question

Given the following,

```
1. public class WrapTest3 {
2.    public static void main(String [] args) {
3.      String s = "98.6";
4.      // insert code here
5.    }
6. }
```

Which line inserted at line 4 will cause compiler errors?

a. `float f5 = Float.valueOf(s).floatValue();`
b. `float f6 = (float) Double.parseDouble("3.14");`
c. `float f1 = Float.floatValue(s);`
d. `float f3 = new Float(3.14f).floatValue();`

Question **29**
Complete
Marked out of 1.00
Flag question

Which of these is used to perform all input & output operations in Java?

a. classes
b. streams
c. Variables
d. Methods

Question **30**
Complete
Marked out of 1.00
Flag question

Given the following,

```
1. public class WrapTest3 {
2.    public static void main(String [] args) {
3.      String s = "98.6";
4.      // insert code here
5.    }
6. }
```

Which line inserted at line 4 will cause compiler errors?

a. `float f6 = (float) Double.parseDouble("3.14");`
b. `float f5 = Float.valueOf(s).floatValue();`
c. `float f3 = new Float(3.14f).floatValue();`
d. `float f2 = Float.valueOf(s);`

Question **31**
Complete
Marked out of 1.00
Flag question

What happens if readLine() encounters an error?

a. The program immediately halts.
b. It throws an IOException.
c. It returns null
d. Nothing; the program must examine the returned value to see if it makes sense.

Question **32**
Complete
Marked out of 1.00
Flag question

____ class is used to increase the efficiency of input operations.

a. FileInputStream
b. DataInputStream
c. PipeInputStream
d. BufferedInputStream

Question **33**
Complete
Marked out of 1.00
Flag question

Given the following,

```
public class NFE {
 public static void main(String[] args) {
  String s = "42";
  try {
   s = s.concat(".5");
   double d = Double.parseDouble(s);
   s = Double.toString(d);
   int x = (int) Math.ceil(Double.valueOf(s).doubleValue());
   System.out.println(x);
  } catch (NumberFormatException e) {
   System.out.println("bad number");
  }
 }
}
```

What is the result?

- a. 43
- b. bad number
- c. Compilation fails.
- d. 42
- e. 42.5

Question **34**
Complete
Marked out of 1.00
Flag question

What happens when the constructor for FileInputStream fails to open a file for reading?

- a. It returns null.
- b. It throws a ArrayIndexOutOfBoundsException.
- c. It throws a FileNotFoundException.
- d. It throws a DataFormatException.

Question **35**
Complete
Marked out of 1.00
Flag question

Given the following,

```
11.  try {
12.   Float f1 = new Float("3.0");
13.   int x = f1.intValue();
14.   byte b = f1.byteValue();
15.   double d = f1.doubleValue();
16.   System.out.println(x + b + d);
17.  }
18.  catch (NumberFormatException e) {
19.   System.out.println("bad number");
20.  }
```

What is the result?

- a. Compilation fails on line 14.
- b. Compilation fails on line 13.
- c. bad number
- d. 9