**QUIZ 4**

**QUESTION 1**

1. In the following code, assume that inputFile references a Scanner object that has been successfully used to open a file:  
     
   double totalIncome = 0.0;  
   while (inputFile.hasNext())  
   {  
     try  
     {  
     totalIncome += inputFile.nextDouble();  
     }  
     catch(InputMismatchException e)  
     {  
     System.out.println("Non-numeric data encountered " +  
     "in the file.");  
     inputFile.nextLine();  
     }  
     finally  
     {  
     totalIncome = 35.5;  
     }  
   }  
     
   What will be the value of totalIncome after the following values are read from the file?   
   2.5  
   8.5  
   3.0  
   5.5  
   abc  
   1.0

|  |  |  |
| --- | --- | --- |
|  |  | 75.0 |
|  |  | 19.5 |
|  |  | 35.5 |
|  |  | 0.0 |

**QUESTION 2**

1. The class variable assignment that follows would be shared by all objects of the class stored in heap memory space.  
     
   static int SICK\_DAYS = 10;

 True

 False

**QUESTION 3**

1. All methods in an abstract class must also be declared abstract.

 True

 False

**QUESTION 4**

1. If a superclass does not have a default constructor,

|  |  |  |
| --- | --- | --- |
|  |  | then a class that inherits from it, must initialize the superclass values |
|  |  | then a class that inherits from it, must call one of the constructors that the superclass does have |
|  |  | then a class that inherits from it, must contain the default constructor for the superclass |
|  |  | then a class that inherits from it, does not inherit the data member fields from the superclass |

**QUESTION 5**

1. In an interface all methods have

|  |  |  |
| --- | --- | --- |
|  |  | public access |
|  |  | protected access |
|  |  | packaged access |
|  |  | private access |

**QUESTION 6**

1. Look at the following code.   
     
   Line 1 public class ClassA  
   Line 2 {  
   Line 3 public ClassA() {}  
   Line 4 public void method1(int a){}  
   Line 5 }  
   Line 6 public class ClassB extends ClassA  
   Line 7 {  
   Line 8 public ClassB(){}  
   Line 9 public void method1(){}  
   Line 10 }  
   Line 11 public class ClassC extends ClassB  
   Line 12 {  
   Line 13 public ClassC(){}  
   Line 14 public void method1(){}  
   Line 15 }  
     
   Which method1 will be executed when the following statements are executed?  
     
   ClassA item1 = new ClassB();  
   item1.method1();

|  |  |  |
| --- | --- | --- |
|  |  | Line 14 |
|  |  | Line 4 |
|  |  | Line 9 |
|  |  | This is an error and will cause the program to crash. |

**QUESTION 7**

1. What string lists the protocol that should be used to access a database, the name of the database, and potentially other items?

|  |  |  |
| --- | --- | --- |
|  |  | JDBC driver |
|  |  | JDBC locator |
|  |  | Database specifier |
|  |  | Database URL |

**QUESTION 8**

1. What term refers to data that describes other data?

|  |  |  |
| --- | --- | --- |
|  |  | meta data |
|  |  | micro data |
|  |  | abstract data |
|  |  | pseudo-data |

**QUESTION 9**

1. Which Statement interface method should be used to execute a SELECT statement?

|  |  |  |
| --- | --- | --- |
|  |  | execute |
|  |  | executeQuery |
|  |  | executeStatement |
|  |  | executeUpdate |

**QUESTION 10**

1. Given the expression below, what would be the appropriate regex pattern match to find only

the letter s within the string. Case need to matter.

INPUT = "Super stars of IIT";

|  |  |  |
| --- | --- | --- |
|  |  | "[s|S]" |
|  |  | "^[s|S]\*" |
|  |  | "[s|S].\*" |
|  |  | "[^S|s]" |