Review Questions Chapter 6

***Answer the following questions (Don't use any tools to compile and run the code).***

***Reference: Transcender powered by Kaplan IT Training, 1Z0-808-Java SE 8 Programmer I(OCA).***

1. Given:

public class Factorial {  
     public static int get() {  
          return 1;  
     }  
     public static int get(int n) {  
          int fact = get();  
          for (int i = n; i > 1; i--) {  
               fact \*= i;  
          }  
          return fact;  
     }  
     public static int get(int n, int k) {  
          return get(n) / get(n-k);  
     }  
}  
  
Which code line will generate the output 120?

1. System.out.print(Factorial.get());
2. System.out.print(Factorial.get(5));
3. System.out.print(Factorial.get(10));
4. System.out.print(Factorial.get(10,5));

2. Given the following code line:

printToConsole(1.2);  
  
Which overloaded method is invoked?

A.                void printToConsole(float fl) {

     System.out.println("My float is " + fl);

}

B.                void printToConsole(Double dblObj) {

     System.out.println("My double object is " + dblObj.toString());

}

C.                void printToConsole(Integer intObj) {

     System.out.println("My integer object is " + intObj.toString());

}

D.                void printToConsole(Object obj) {

     System.out.println("My object is " + obj.toString());

}

3. Given:

public class VarScope {  
     static int var;  
     public static void main (String[] args) {  
          int var = 9;  
          printVar();  
     }  
     public static void printVar() {  
          int var = 10;  
          //insert code here  
     }  
}  
  
Which statement should be inserted in the code to output 0?

1. System.out.print(var);
2. System.out.print(VarScope.var);
3. System.out.print(main.var);
4. System.out.print(main().var);

4. Which statement is true about varargs when specifying method parameters?

1. Arguments are accessible as enumeration values.
2. Arguments can consist of different data types.
3. Valid invocation requires at least one argument value.
4. Valid invocation can have zero arguments.

5. Which two characteristics distinguish overloaded methods?

1. Access modifiers
2. Method name
3. Return type
4. Parameter number
5. Parameter data types