Guidelines: Answer the questions below by ticking the box next to the correct response(s) to each question. Be sure to check your answers to ensure that they are correct.

1. **What is 'volatile memory'?**
   Choose one answer.

   ☐ A. Volatile memory is memory that requires power, such as RAM
   ☐ B. Volatile memory is memory that does not require power, such as the hard disk drive
   ☐ C. Volatile memory is memory that is prone to system errors
   ☐ D. Volatile memory is memory that is solely used by the operating system

2. **What is 'non-volatile memory'?**
   Choose one answer.

   ☐ A. Non-volatile memory is memory that requires power to retain its data, such as RAM
   ☐ B. Non-volatile memory is memory that does not require power to retain its data, such as the hard disk drive
   ☐ C. Non-volatile memory is memory that is prone to system errors
   ☐ D. Non-volatile memory is memory that is solely used by the operating system

3. **What would be the output (to the text file) of this statement?**

   ```
   FileWriter writeObj;
   PrintWriter printObj;
   String myText = "Hello text file";
   try{
        writeObj = new FileWriter("C:\\Documents\\myText.txt", true);
        printObj = new PrintWriter(writeObj);
        printObj.println(myText);
        printObj.close();
   }catch(Exception ex){
        System.out.println("Error: " + ex);
   }
   ```

   Choose one answer.

   ☐ A. myText
   ☐ B. C:\\Documents\\myText.txt
   ☐ C. writeObj
   ☐ D. Hello text file

4. **In the following line of code, what does the 'true' signify?**

   ```
   writeObj = new FileWriter("C:\\Documents\\myText.txt", true);
   ```

   Choose one answer.

   ☐ A. To overwrite the text file at the given directory
   ☐ B. To create a copy of the text file at the given directory
   ☐ C. To append (add to) the text file at the given directory
   ☐ D. To delete the text file at the given directory

5. **In the following line of code, what does the 'false' signify?**

```
writeObj = new FileWriter("C:\\Documents\\myText.txt", false);
```

Choose one answer.

☐ A. To overwrite the text file at the given directory
☐ B. To create a copy of the text file at the given directory
☐ C. To append (add to) the text file at the given directory
☐ D. To delete the text file at the given directory

6. **In the following code, what is the purpose of the [.close()] method?**

```
FileWriter writeObj;
PrintWriter printObj;
String myText = "Hello Text-file";
try{
    writeObj = new FileWriter("C:\\Documents\\myText.txt", true);
    printObj = new PrintWriter(writeObj);
    printObj.println(myText);
    printObj.close();
}catch(Exception ex){
    System.out.println("Error: " + ex);
}
```

Choose one answer.

☐ A. To close the text file and remove it from memory
☐ B. To close the stream and release all of the associated system resources
☐ C. To close the command-line
☐ D. To close the javac compiler

7. **What is the main purpose of this code?**

```
import java.io.*;
public class MyTextReader{
    public static void main(String[] args){
        String myDirectory = System.getProperty("user.dir");
        String fullDirectory = myDirectory + "\\myText.txt";
        String input_line = null;
        try{
            BufferedReader re = new BufferedReader(new
            FileReader(fullDirectory));
            while ((input_line = re.readLine()) != null){
                System.out.println(input_line);
            }
        }catch(Exception ex){
            System.out.println("Error: " + ex);
        }
    }
}
```

Choose one answer.

☐ A. To read all lines of text from a text file and save them to the 'user.dir' directory
☐ B. To read all lines of text from a text file and store those lines into a file reader
☐ C. To read all lines of text from a text file and store those lines into an array list
☐ D. To read all lines of text from a text file and print those lines to the command-line

8. **In the following code, what is the purpose of this line**
   `[while((input_line = re.readLine()) != null){]`?

```java
import java.io.*;
public class MyTextReader{
    public static void main(String[] args){
        String myDirectory = System.getProperty("user.dir");
        String fullDirectory = myDirectory + "\\myText.txt";
        String input_line = null;
        try{
            BufferedReader re = new BufferedReader(new
            FileReader(fullDirectory));
            while((input_line = re.readLine()) != null){
                System.out.println(input_line);
            }
        }catch(Exception ex){
            System.out.println("Error: " + ex);
        }
    }
}
```

Choose one answer.

☐ A. To determine whether the text file is empty or not
☐ B. To wait a 'while' until the text file contains data
☐ C. To continue to loop through each line of text in the text file, until there are no
       lines remaining
☐ D. To set the input_line variable to null