Level 5 Practice Exam

Name: _____

GitHub username: _____

1. Create an object of the FileWriter class that will append to a file that already exists.

2. Create and initialize an object of the BufferedReader class.

3. Create a Java Thread that prints the current day of the week 1000 times and start the thread.

4. When using an object of either the FileReader, BufferedReader, and FileWriter classes; what method should be called at the end of all file operations?

5. Use the following ArrayList to create a Stream object.

ArrayList<Integer> nums = new ArrayList<Integer>();

6. Create a Stream object out of the following array and alphabetize it.

String[] list = new String[1000];
// strings are added to list here

7. Add an ActionListener to the following button using a lambda. Make it so the button Prints a message in a pop-up window.

JButton button = new JButton();

8. Add code to the interface to make it a functional interface.

public interface Closable{

}

9. What is the value of zed after the following code executes?

       int zed = 1 << 4;

10. Convert the following binary numbers to decimal:

      a)   10 = _____

      b)   10101 = _____

      c)   1011 = _____

      d)   110111 = _____

11. Convert the following decimal numbers to binary:

      a)   6 = _____

      b)   17 = _____

      c)   90 = _____

      d)   122 = _____

12. Answer the following:

      a)   1 | 3 = _____

      b)   3 & 3 = _____

      c)   5 | 4 = _____

      d)   3 & 4 = _____

      e)   10 ^ 16 = _____

13. How many bits are in an IP address?

14. Consider the following interface and method.

```
interface Roller {
        void roll(float angle);
}

public void rotate(Roller r){
        //code
}
```

Call the rotate method using a lambda to define the Roller parameter.

15. Use the forEach method in the following Stream object to print the first character of each string in the stream.

Stream<String> dubStream = //initialized here;