CAFFEINE EXTRACTION LAB QUIZ

1. What is the purpose of the lab?

2. We will purify caffeine by a process called sublimation. What does sublimation mean?

3. In the sublimation apparatus, where is the crude caffeine?

4. Right after the sublimation process, where will the pure caffeine be?

5. Does caffeine dissolve better in polar or non-polar solvents?

6. Is 1,1,1-TCE polar or non-polar?

7. What do you do after you add the 10 mL of 1M sodium carbonate and tea bag in the 50 mL beaker?

8. In step 5, what do you have to do after you shake the centrifuge tube containing the solution?

9. In step 5, you need to shake at least a total of 40 seconds. What is the total number of times you must relieve the pressure?

10. What important thing do you have to do when you centrifuge? (Describe)

11. After centrifuging you should have two layers. Which layer do you remove with a pasteur pipette?

12. On day 2, you have to add pea-sized amounts of sodium sulfate to the vial with the caffeine mixture and 1,1,1-TCE. When do you stop adding sodium sulfate?

13. What safety procedure must we follow at all times to make sure we don’t lose our sight?