Chem 1 Hour\_\_\_\_\_ Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Dr. Wexler  
Laboratory Safety Quiz  
Date:

**Part I. Short Essay**  
1. Explain why you should never add water to concentrated acid when making a diluted acid solution:

2. Explain why it is important to avoid returning excess, unused reagent to its stock bottle:

3. Explain why it is important not to eat in the lab:

**Part 2. True/False**4. \_\_\_\_\_ If you accidentally splash a corrosive chemical in your eye, you should rinse your eye in running water for at least several minutes.

5.\_\_\_\_\_ It is OK to take off your safety glasses when you are done pipetting a dangerous chemical even though your neighbor is still in the process of pipetting.

6.\_\_\_\_\_ It is safe to look into the mouth of a test tube that you are heating so that you can observe its contents more directly.

7. \_\_\_\_\_ A Bunsen burner may be left unattended as long as the flame is turned down to a minimum.

8. \_\_\_\_\_ Even though a glass beaker has a crack, it is safe to use as long as it is not leaking.

9. \_\_\_\_\_ Always double check to make sure the gas burners are turned off all the way before you leave the lab.

10. \_\_\_\_\_ All liquids, no matter how corrosive and hazardous, may be poured down the drain for disposal.

11. \_\_\_\_\_ Treat all unfamiliar chemicals as if they are hazardous.

12. \_\_\_\_\_ Broken glass, biohazard waste, sharps, and radioactive waste are all examples of materials that must be disposed of in special containers, not in general waste baskets.

13. \_\_\_\_\_ It is safe to work in the lab alone.

**Part 3. Multiple Choice**

14. Which of the following is a valid reason not to use broken or chipped glassware:  
 A. It can explode when heated or placed under pressure  
 B. Broken glass is extremely sharp  
 C. Cracked glassware can easily fall apart when in use  
 D. All of the above

15. Which of the following should be part of your checkout procedure at the end of a lab:  
 A. Water faucets are turned off  
 B. Gas lines are turned off  
 C. All equipment has been cleaned and neatly arranged, or returned to storage if appropriate.  
 D. The bench top has been wiped down with water and dried with paper towels.  
 E. All of the above

16. What is the correct procedure for students to follow if a dangerous chemical is spilled?  
 A. Panic and run out of the room  
 B. Fill a bucket with water and pour it on the chemical to dilute it.  
 C. Advise the teacher of the spill and wait for instructions.  
 D. All of the above

17. A student must never remove chemicals from the lab because  
 A. This may have legal consequences for the student  
 B. These are school property and must stay in the lab  
 C. The student is putting himself/herself and others at risk  
 D. All of the above

**Part 4. Sketch and label a map of the lab and identify the location of each of the following items:**

Fire extinguisher Broken glass bucket Fire alarm  
Eye wash First aid kit Telephone  
Blood spill kit Fire blanket Exit door