**CHE 2060: Pre-lab quiz for absorption chromatography**

*Due upon your arrival in lab.*

*Read the lab materials and the text and search engines to find answers to these questions.*

1. What are the two basic types of chromatography and how do they differ?

2 How do the physical states of stationary and mobile phases differ?

3. Given the structures of methylene blue and methyl orange, which do you think is more polar and why?

4. What is the ‘eluent’ or ‘eluate’ in column chromatography?

5. What is denatured alcohol?

6. What health hazard is posed by alumina and silica powders?

7. Which is more polar, ethanol or water?

8. If silica and alumina are polar and methylene blue elutes in ethanol before methyl orange, which dye is more polar?

9. If water is able to release methyl orange from the column, which is more polar methyl orange or water?

10. If you wanted to use your column a second time, how do you think you would clean and ‘regenerate’ the stationary phase material?