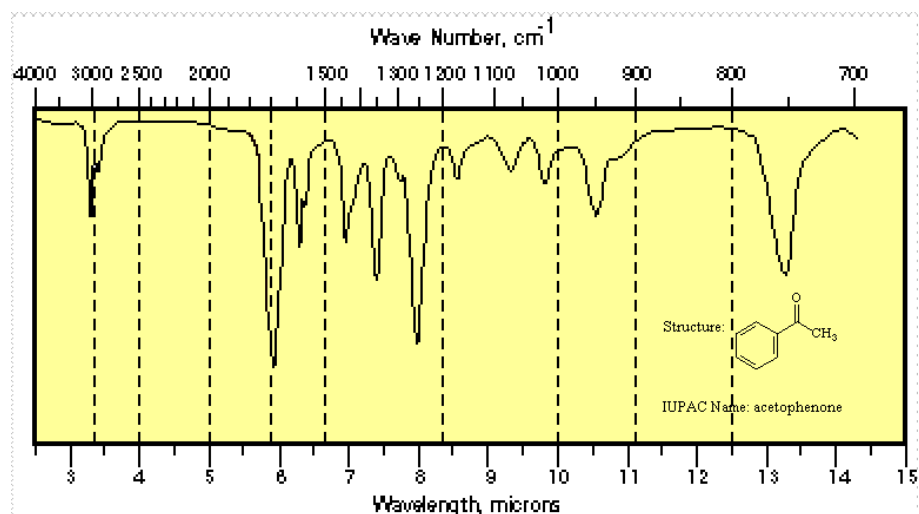


Pre-lab 5: Lab- IR assignments Name: _____

- 1) How many IR absorptions expected for following molecules? (10 pts)
 - a) CO 2) H₂O 3) NH₃ 4) CH₃OH
- 2) Why C=C (double bond) vibration appear at higher cm⁻¹ value than C-C (single bond)? (10 pts)
- 3) How do you measure IR absorptions of a solid sample? (10 pts)

Draw the expanded molecular structure if necessary and assign the IR frequencies in the following Spectra: (use correlation charts or peaks values given at the end of the assignment.

3) **Acetophenone** (10 pts)



3) **Acetone**

