

Extra Credit Assignment (15 points)

Intermolecular Forces and Solubility

Submit before Friday, December 11th, 2020 AT 11:59 PM

If you have a printer: Print this file, write your answers on it and submit the file to the corresponding folder in D2L.

If you do not have a printer: Copy the question number with the corresponding answer in paper.

Take pictures and combine ALL pictures in ONE single file.

Here are some suggested methods for making a single pdf file.

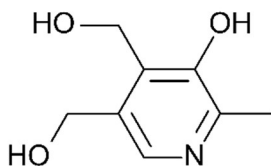
1. Use a scanner.
 - a. You might have one at home.
2. Use your phone.
 - a. If you have an Android, you can use Google Drive to very easily produce a pdf. You can find directions for doing so by following these [directions](#).
 - b. If you have an iPhone, you also have options. You can use these [directions](#).
 - c. You can download an App that will take pictures and convert them to pdfs. Several examples that I have tested are Tiny Scanner, Fast Scanner, and Smart Scanner. They all have the required features to create acceptable documents.

Once you have your pdf created, you will be able to upload it to D2L.

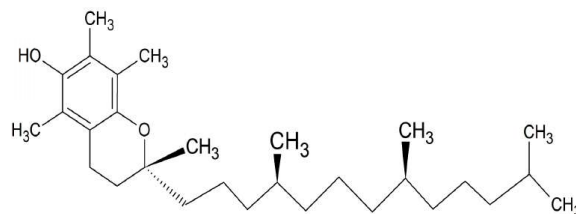
To submit the file in D2L: Go to Assessments, then Assignments and upload the file in the folder labeled Extra Credit

1) Predict whether each of the following chemical compounds is soluble or insoluble in water. Justify your answer based on intermolecular forces.

A)



B)



2) A stain in a piece of fabric will not come out when you wipe it with a wet cloth. What clues does this give you about the properties of the stain? What substance can you try using to remove the stain? Justify your answer based on intermolecular forces.

3) Explain the difference between the covalent bonds and the hydrogen bonds in water.

4) Define viscosity and explain how viscosity is affected by intermolecular forces.
