WORKSHEET

1. Molecular Formula
   IR
   \#H's not attached to C =
   UV

2. Index of Hydrogen Deficiency =
   Exploring around the unsaturated functional groups:
   \# \begin{array}{c}
   & \text{O} \\
   \end{array} (160-220)
   \# \begin{array}{c}
   & \text{C} \\
   \end{array} (100-160)
   \# \begin{array}{c}
   & \text{C} \equiv \text{N} \\
   \end{array} 105-120, s
   \# \sp \begin{array}{c}
   & \text{C} \equiv \text{C} \\
   \end{array} 65-90
   \# \text{ rings : }
   
   \text{IHD} =

3. Other heteroatoms - exploring around the saturated functional groups :

4. Other pieces :
   a. Methyl groups
   b. $^1$H NMR > 2.0
   c. Other carbons

5. Putting it all together :