

Chem 130: Chemistry for Funeral Services

Problem Set 12

Name: _____

Date: _____

Each question is worth two points. Show your work wherever calculations are required.

1. What is the difference between a fat and an oil?
2. Give the reaction for the formation of a fatty acid. What type of functional group is produced?
3. What is the difference between a saturated and an unsaturated fatty acid? Which fatty acids are essential?
4. What is saponification? What is adipocere and how does it relate to saponification? Also, describe how a micelle works.
5. What causes rancidity of fats and oils? Describe the process in some detail.