**CHAPTER 6: CHEMISTRY IN BIOLOGY RFC #6**

\* Read the following questions, **THEN** read from Chapter 6 p.169 to p.171 **STOP @ lipids**, **THEN** answer the following questions on your own paper in complete sentences.

1. Lipids are molecules made up mostly of what two types of atoms? What do they make up?
2. What is the primary function of lipids?
3. What is a triglyceride and give an example of where it is found?
4. Why are plants coated with a wax?
5. **Type II**: Explain the basic structure of a lipid, **THEN** explain the difference between unsaturated, saturated, and polyunsaturated fats with reference to structure? *Underline* unsaturated, saturated and polyunsaturated in your explanation.
6. What are phospholipids responsible for in cell biology?
7. What is meant by the term hydrophobic? Why is it important that phospholipids are hydrophobic?
8. What do steroids contain? How is cholesterol beneficial?
9. What are amino acids and what are they made up of?
10. **TYPE II:** Explain the basic structure of an amino acid by using the following terms/phrases, *underline* them when used. **Carbon, hydrogen, amino group, carboxyl group, variable (R) group.**
11. How many different amino acids are there?
12. What is a peptide bond?
13. Name the different three-dimensional protein structures.
14. What structures of the body are made of protein?
15. What functions do proteins serve in our cells?
16. What is the function of nucleic acids?
17. What are the smaller unites that make up nucleic acids?
18. All major nucleotides have what three units?
19. What are the two types of nucleic acids found In the human body?
20. Explain the structure and function of ATP?