**CHAPTER 7: CELLULAR STRUCTURE AND FUNCTION RFC #2**

\* Read the following questions, **THEN** read from Chapter 7 p. 187 to p. 190, **THEN** answer the following questions on your own paper in complete sentences. ***ANSWERS ARE NOT IN ORDER, YOU MUST READ FIRST!***

1. How do carbohydrates attached to proteins help the cell?
2. Compare and contrast the proteins found on the outer surface vs the inner surface of the plasma membrane.
3. Why will water soluble substance have a difficult time passing through the cell membrane?
4. Why is homeostasis essential to the survival of a cell?
5. Why is the plasma membrane said to be selectively permeable?
6. Describe the difference between a lipid and a phospholipid?
7. What does the plasma membrane allow into the cell? What does it allow to exit?
8. How are the two layers of phospholipids arranged to make up the plasma membrane?
9. What function does cholesterol serve as part of the plasma membrane?
10. **TYPE II**: Describe in detail the structure of the cell membrane. Using the following words and **underline** them when used: polar, nonpolar, hydrophobic, hydrophilic, head, and tail.
11. How does the structure of transport proteins contribute to the selectively permeable plasma membrane?
12. **Type II:** Why is the plasma membrane referred to as a fluid mosaic model?
13. What is the Main Idea for Section 2?

Complete Questions 1 & 2 from the Data Analysis Lab 1 on p. 189.

\* Read the following questions, **THEN** read from Chapter 18 p. 518 UP TO CAPSULE **AND** p. 519 CELL WALLS, **THEN** answer the following questions on your own paper in complete sentences.

1. What do prokaryote (bacteria) cells have in common with all cells and what is different?
2. Where are the genes found in a prokaryote cell?
3. Do prokaryote cells contain cell walls? Explain.

\* Read the following questions, **THEN** read from Chapter 18 p. 525 up to Virus Size and p. 526 Virus Structure, **THEN** answer the following questions on your own paper in complete sentences.

1. What is a virus?
2. Why do many scientists not consider viruses to be living?
3. Describe the outer layer of viruses.
4. Do viruses contain DNA or RNA?