

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

## ***BIOLOGY – PROBLEM SET***

### **CHAPTER 12: DNA**

### **CHAPTER 13: RNA & PROTEIN SYNTHESIS**

IN ORDER TO RECEIVE FULL CREDIT FOR ANSWERS, YOU MUST DO ALL OF THE UNDERLINED WORDS IN EACH QUESTION.

1. Identify and describe two specific examples of **levels of organization** that relate to a topic in chapters 12 & 13. [2 points]
2. Identify, describe, and draw one example of a **lock-and-key fit** OR a **structure-function relationship** OR a **surface area to volume ratio** that relates to a topic in chapters 12 & 13. [3 points]
3. Identify and describe one example of **matter** OR **energy** that relates to a topic in chapters 12 & 13. [1 point]
4. Identify and describe one example of **evolution** that relates to a topic in chapters 12 & 13. [2 points]
5. A DNA sample has just been isolated. The following chart summarizes the scientist's findings. Describe the error made by the scientist. Correct the error. Describe and interpret the meaning of the **corrected** chart. [2 points]

guanine content	22%
adenine content	28%
cytosine content	28%
thymine content	22%