Honors Biology Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
NDHS Per: \_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_

**Protein Synthesis Homework**

**Directions**: Answer all the following prompts completely and accurately. You do NOT have to use full sentences when listing any processes.

1 – 3. What are the three steps of protein synthesis? Give a BRIEF (one sentence) explanation of what happens in each.

4 – 6. What are the three types of RNA and what do they do in protein synthesis?

5. Why is a protein called a polypeptide chain?

6 - 8. Explain the process of protein synthesis using analogy.

9. What happens to mRNA after is it formed and before it is used in translation?

10. What is the significance of these four codon triplets: AUG, UGA, UAG, UAA

11 – 15. Explain translation.

16 – 20. Transcribe and translate the following DNA sequence.

TAC GGA CGG TCG TGG ACA ATT