Final Essay Question Set

1. Compare and contrast the lytic and lysogenic life cycles of bacteriophage.

2. Explain the methods used by Mendel to disprove the prevailing genetic "philosophies" of his time.

3. Detail the differences in structure and function between DNA and RNA. Be sure to include the different types of RNA.

4. Cloning, gene therapy, foreign genes in plants and animals (transgenics) etc. are 'hot topics'. Explain how bacteria have been doing these biotechnological wonders for eons.?

5. Describe the progression from DNA to polypeptide. Describe the key steps and components of protein synthesis.

6. 5’ and 3’, N-terminus and C-terminus. What do these terms refer to? What reactions (including the molecules and linkages) are associated with these terms? How are 5’, 3’, N-terminus, and C-terminus related?