Name: _____ EID: _____

Topic: DNA for Information Storage (Week 11)
Pre-discussion questions. Answer briefly. Use only the space provided.

1) How many nucleotides long is the longest single-stranded DNA molecule used by Church to store information in DNA?

2) Portions of this sequence are used for three different functions. Name these functions and draw a figure showing how they might be located relative to one another on a DNA strand.

3) How much greater is the information density of DNA in a test tube compared to a standard hard disk or flash drive? (Hint: Look in the supplemental materials for precise numbers.)

4) What is a major disadvantage of using DNA to encode information relative to normal digital media?

5) Do you think any library or archive in the world will start using DNA for information storage within the next 20 years?