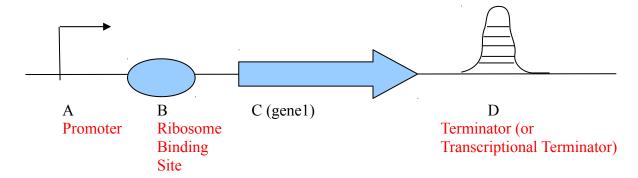
Pop Quiz: Central Dogma of Biology

SEED Academy Synthetic Biology – Spring 2012

Name: ANSWER KEY



- 1. Label the parts A, B, and D on the DNA strand shown above.
- 2. What enzyme binds to A? RNA Polymerase
- 3. What 'enzyme' binds to B? Ribosome
- 4. If you changed the DNA sequence of each of the following parts, would transcription or translation be most affected?
 - A: Transcription
 - **B**: Translation
 - D: Transcription
- 5. Bonus: Suppose you wanted to insert a new gene, gene2, into the DNA strand shown above, so that gene2 is expressed whenever gene1 is expressed.
 - a) You would also need to include a second copy of either A, B, or D. Which one is needed?
 - B (Ribosome Binding Site) otherwise gene2 will not be translated
- b) Where would you insert gene2 and the extra part from (a)? Either between A and B, or between gene1 and D.