Genetics quiz review

*The following is minimal list of topics that the student should have mastered.*

1. What is a nucleotide and the 3 parts to the nucleotide? What nitrogen bases pair together?
2. List 4 differences between DNA and RNA
3. What are the steps of transcription and translation?
4. Define codon and be sure you know how to decifer the codon wheel.
5. What is S-phase and list the steps.
6. What does non-coding DNA do?
7. What is a telomere and what can cause it to shorten?
8. What is the difference between a genetic and chromosomal mutation?
9. List and define all genetic mutations and which one is most and least harmful?
10. List and define all chromosomal mutations and which one is the most and least harmful?
11. If you have a complementary strand of DNA which is ATGTTCGGAAACCGA , what is the coding strand, mRNA, tRNA, and amino acids?