Protein Synthesis Worksheet

1. Write all of the possible codons that could make the following amino acid.

Start   Leucine   Proline   Alanine   Stop   Start   Glycine   Stop

2. How many amino acids are there in the above sequence? _____

3. How many proteins are there in the above sequence? _____

4. How many codons are there for the above sequence (not 23)? _____

5. Write the nucleotides for DNA and for RNA.
   DNA -   RNA-

6. Complete this sequence to demonstrate replication.

G   T   T   A   G   C   C   C   T   G   A   A   T   G   C

7. How many codons are there in the above sequence? _____

8. Complete this sequence to demonstrate transcription.

A   T   T   A   C   G   A   A   G   C   T   A   A   T   C

9. How many codons are there in the above sequence? _____

Where does each of theses processes occur in the cell?

   10. Replication –

   11. Transcription –

   12. Translation –