1. Protein synthesis occurs in the ____________________________.

2. Give two reasons what proteins are important to all living things: _____________________________________________.

3. The directions for making proteins are found in the _____________________________.

4. The process of making RNA from DNA is called _____________________________.

5. The type of protein made is determined by the sequence of _____________________________.

6. Proteins are produced during the process of _____________________________.

7. Describe what a codon is: _____________________________________________.

8. The start codon is: _____________. Its job is to: _____________________________________________.

9. The stop codons are: _____________________________. Their job is to: _____________________________.

10. The amino acid _____________________________. is represented by the mRNA codon UCA.

11. The amino acid _____________________________. is represented by the mRNA codon GGU.

12. The amino acid Arginine is represented by the mRNA codons _____________________________.

13. The amino acid Histidine is represented by the mRNA codons _____________________________.

14. The amino acid Valine is represented by the mRNA codons _____________________________.

15. The amino acids _____________________________. and _____________________________. are represented by only one codon.

Label the diagram. Use these choices: transfer RNA (tRNA), amino acid, amino acid chain, codon, anticodon, messenger RNA (mRNA), ribosome.

20. _____________________________________________.

21. _____________________________________________.

22. _____________________________________________.

23. _____________________________________________.

24. _____________________________________________.

25. _____________________________________________.

26. _____________________________________________.