

### RNA Editing (page 302)

6. Many RNA molecules from eukaryotic genes have sections, called \_\_\_\_\_, edited out of them before they become functional. The remaining pieces, called \_\_\_\_\_, are spliced together.
7. Is the following sentence true or false? RNA editing occurs in the cytoplasm of the cell.  
\_\_\_\_\_
8. What are two explanations for why some RNA molecules are cut and spliced?
  - a. \_\_\_\_\_  
\_\_\_\_\_
  - b. \_\_\_\_\_  
\_\_\_\_\_

### The Genetic Code (pages 302–303)

9. Proteins are made by joining \_\_\_\_\_ into long chains called polypeptides.
10. How can only four bases in RNA carry instructions for 20 different amino acids?  
\_\_\_\_\_  
\_\_\_\_\_
11. What is a codon? \_\_\_\_\_  
\_\_\_\_\_
12. Circle the letter of the number of possible three-base codons.  
a. 4                      b. 12                      c. 64                      d. 128
13. Is the following sentence true or false? All amino acids are specified by only one codon. \_\_\_\_\_
14. Circle the letter of the codon that serves as the “start” codon for protein synthesis.  
a. UGA                      b. UAA                      c. UAG                      d. AUG

### Translation (pages 303–305)

15. What occurs during the process of translation? \_\_\_\_\_  
\_\_\_\_\_
16. Where does translation take place? \_\_\_\_\_  
\_\_\_\_\_