

Biology test chapter 12

Name \_\_\_\_\_

Date \_\_\_\_\_

Genome      mitochondrial DNA      gene disorder      genetic engineering      base sequence

1. Cystic fibrosis is an example of a \_\_\_\_\_.
2. The \_\_\_\_\_ provides the code that directs the cell to make specific proteins.
3. Scientists use \_\_\_\_\_ to study human origin because it is only inherited from the mother.
4. Insulin for people is an example of \_\_\_\_\_.
5. There is an important project underway to map the entire human \_\_\_\_\_.

\_\_\_\_\_

6. When does DNA replication occur? \_\_\_\_\_

7. Of the four nitrogen base pairs, guanine always pairs with:

- A. Adenine    B. Cytosine    C. Thymine    D. Guanine

8. Which body cells have no DNA? \_\_\_\_\_

9. What is a genome and where are they found? \_\_\_\_\_

\_\_\_\_\_

10. What is selective breeding and list three examples? \_\_\_\_\_

\_\_\_\_\_

11. Name two genetic disorders and explain the type of mutation that causes each? \_\_\_\_\_

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12. Below is a sequence of bases along one side of a DNA molecule. Write out the sequence of DNA bases that would pair with the ones shown:

A - \_\_\_\_\_

G - \_\_\_\_\_

C - \_\_\_\_\_

T - \_\_\_\_\_

T - \_\_\_\_\_

G - \_\_\_\_\_

\*Bonus\* Explain how RNA, DNA, Ribosomes, Amino Acids and Proteins relate to each other.