



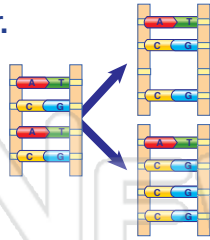
Nucleic Acids & Protein Synthesis

H.S. Bio

Name _____ Class _____ Date _____

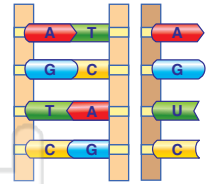
1 If a **nucleotide** is **deleted** from a nucleotide sequence in a DNA molecule, the **result** is a _____. Circle the answer.

- clone
- mutation
- hybrid
- polypeptide



6 One **similarity** between **DNA** and messenger **RNA** molecules is that they **both contain** _____.

- a. genetic codes based on sequences of bases
- b. a nitrogenous base known as uracil
- c. double-stranded polymers



2 In a portion of a **gene**, the **nitrogenous base sequence** is T-C-G-A-A-T. Write the nitrogenous base **sequence** that would normally **bond** to this section of the gene.

T-C-G-A-A-T

7 What **base** is normally used in the **synthesis of RNA** but **not** in the **synthesis of DNA**? Name it.



3



What is the structure of these molecules?

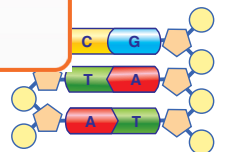


What is the function of these molecules in the cell?

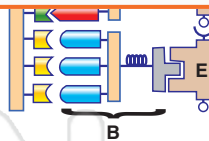
4

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What is the function of these molecules?



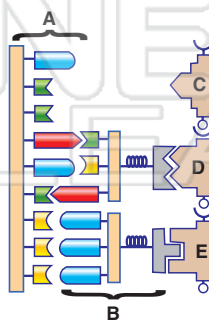
- b. a polypeptide
- c. DNA



- b. phosphate groups
- c. nitrogenous bases

5 **Structure B** represents a **molecule** of _____.

- a. nuclear DNA
- b. ribosomal RNA
- c. transfer RNA



10 Which statement best describes the **relationship** between **cells, DNA** and **proteins**?

- a. Cells are linked together by proteins to make DNA molecules.
- b. Cells contain DNA that controls the production of proteins.
- c. DNA is composed of proteins that control how cells function.



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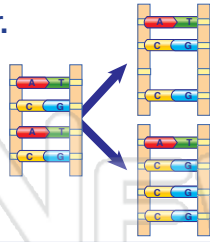
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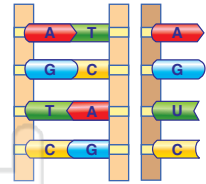
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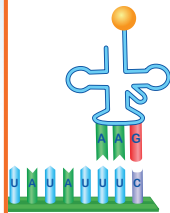
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3 T is a _____ molecule.



What is the _____ molecules?

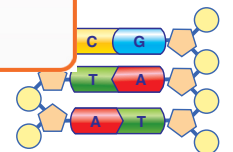


_____ in the cell

4 M _____ C _____

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A molecule, _____

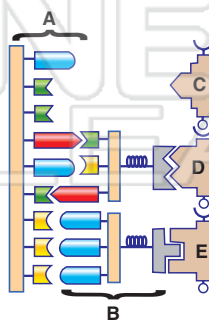


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