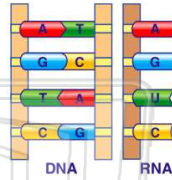




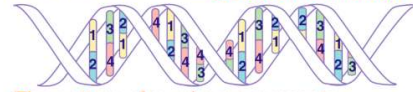
Name _____ Class _____ Date _____

1 Which substance is present in **some** of the nucleotides of **DNA molecules**, but **not** in those of **RNA molecules**?

- A adenine
- B cytosine
- C thymine
- D ribose



2 The diagram below represents a section of a molecule that carries **genetic information**.



The pattern of numbers represents

- A a sequence of paired bases
- B the order of proteins in a gene
- C folds of an amino acid
- D positions of gene mutations

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

- A Cells contain DNA that controls the production of proteins.
- B DNA is composed of proteins that carry

4 Which **sequence of terms** represents a **decrease** from the greatest number of structures to the least number of structures present in a cell?

- A nucleus → gene → chromosome

5



PREVIEW

7

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- B The amino acid sequence may be altered during protein synthesis.
- C The chromosome number will decrease in future generations.
- D The chromosome number may increase within the organisms.

- B mutations in embryo cells
- C new cells resulting from meiosis
- D certain genes being expressed in some cells and not in others

9

A **change** in the **base subunit sequence** during DNA replication can result in

- A variation within an organism
- B rapid evolution of an organism
- C synthesis of antigens to protect the cell
- D recombination of genes within the cell

10

Two proteins in the same cell perform **different functions**. This is because the two proteins are composed of

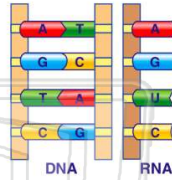
- A chains folded the same way and the same sequence of simple sugars
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- C chains folded differently and a different sequence of simple sugars
- D chains folded differently and a different sequence of amino acids



Name _____ Class _____ Date _____

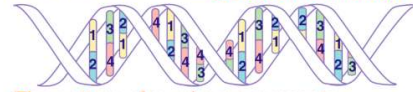
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C

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