

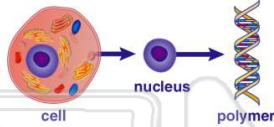


Name _____ Class _____ Date _____

1

The **structure and location** of a cellular component is represented in the diagram below. The **polymer** in the diagram most likely contains

- A adenosine triphosphate
- B lipids
- C genes
- D hydrolytic enzymes



2

In a portion of a gene, the nitrogenous base sequence is **T-C-G-A-A-T**. Which **nitrogenous base sequence** would normally be found bonded to this section of the gene?

- A A-C-G-T-A-A
- B A-C-G-U-U-A
- C A-G-C-T-T-A
- D U-G-C-A-A-U



3

If an adenine nucleotide is **deleted from a nucleotide sequence** in a DNA molecule, the result is a

- A clone
- B mutation



4

A general equation for a chemical reaction is shown below.



Which substance is represented by letter **A**?

5



PREVIEW

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7

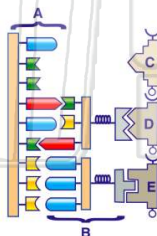
- B cancer cells
- C nerve cells
- D cells that are unable to reproduce

- C the number of genes found in the nucleus
- D the number of chromosomes in the cell

9

Molecules **C, D,** and **E** will **combine** to form part of

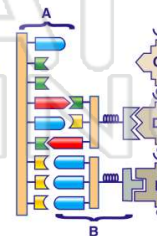
- A a polypeptide
- B a polysaccharide
- C DNA
- D RNA



10

Structure **B** represents a **molecule** of

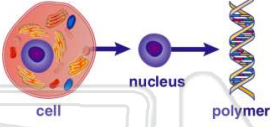
- A nuclear DNA
- B cytoplasmic DNA
- C ribosomal RNA
- D transfer RNA





Name _____ Class _____ Date _____


1 The **structure and location** of a cellular component is represented in the diagram below. The **polymer** in the diagram most likely contains



A adenosine triphosphate
B lipids
C genes
D hydrolytic enzymes

C


2 In a portion of a gene, the nitrogenous base sequence is **T-C-G-A-A-T**. Which **nitrogenous base sequence** would normally be found bonded to this section of the gene?



A A-C-G-T-A-A
B A-C-G-U-U-A
C A-G-C-T-T-A
D U-G-C-A-A-U

C

3 If an adenine nucleotide is **deleted from a nucleotide sequence** in a DNA molecule, the result is a



A clone
B mutation

B

4 A general equation for a chemical reaction is shown below.

polypeptide + water $\xrightarrow{\text{A}}$ **amino acids**

Which substance is represented by letter **A**?

C



PREVIEW

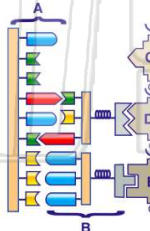
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B

8 **B** cancer cells
C nerve cells
D cells that are unable to reproduce

C the number of genes found in the nucleus
D the number of chromosomes in the cell

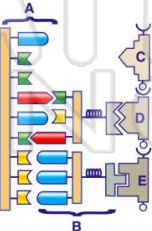
9 Molecules **C**, **D**, and **E** will **combine** to form part of



A a polypeptide
B a polysaccharide
C DNA
D RNA

A

10 Structure **B** represents a **molecule** of



A nuclear DNA
B cytoplasmic DNA
C ribosomal RNA
D transfer RNA

D