Name: Score:

8 Multiple choice questions

Term 1 of 16

Because of the way the nitrogen bases pair up, the order of the bases in each new DNA strand exactly ___ the order in the original DNA strand.

- matches
- randomizes
- reverses
- alters

Term 2 of 16

Each group of three DNA bases on a gene codes for a single __.

- protein
- carbohydrate
- lipid
- amino acid

Term 3 of 16

The ___ of the nitrogen bases along a gene forms a genetic code that specifies what type of protein will be produced.

- number
- order
- sequence
- size

Term 4 of 16

The order of the bases along a gene determines the order in which ___ are put together to form a protein.

- lipids
- amino acids
- vitamins
- sugars

Term 5 of 16

Why is DNA replication important?

- daughter cells use DNA for communication
- daughter cells need a complete set of DNA to survive
- daughter cells need energy to function
- daughter cells require extra DNA for growth

Term 6 of 16

A ___ is a section of a DNA molecule that contains the information to code for one specific protein.

- ○ **chromosome**
- ○ **codon**
- ○ **gene**
- ○ **protein chain**

Term 7 of 16

DNA ___ is a process by which DNA copies itself

- ○ **Translation**
- ○ **Transcription**
- ○ **Replication**
- ○ **Mutation**

Term 8 of 16

The genetic code is found in the order of nitrogen _____ along a gene.

- ○ **proteins**
- ○ **sugars**
- ○ **acids**
- ○ **bases**

8 Matching questions

chromosomes	**A.** Nitrogen bases
double helix - - twisted ladder	**B.** What is the shape of DNA?
deoxyribose (sugar) and phosphate groups	**C.** DNA replication
deoxyribonucleic acid	**D.** Genes are located on ___.
adenine, thymine, guanine, cytosine	**E.** What is the full name of DNA?
Adenine - Thymine Cytosine - Guanine	**F.** What are the pairs of nitrogen bases in DNA?
DNA makes copies of itself	**G.** What substances make up the sides of DNA?
molecules that contain nitrogen and other elements	**H.** What are the four nitrogen bases found in DNA?

9-16 of 16