Name _____

Unraveling the Mystery of DNA Replication

Multiple Choice Questions

1. What is DNA replication?

a) The process of making an exact copy of a DNA molecule.

b) The process of making proteins from DNA.

c) The process of breaking down DNA molecules.

d) The process of converting DNA into RNA.

2. Where does DNA replication occur in eukaryotic cells?

a) Cytoplasm

b) Nucleus

c) Mitochondria

d) Cell membrane

3. What is the role of helicase in DNA replication?

a) Adding new nucleotides to the DNA strand

b) Unwinding and separating the two strands of the DNA

c) Proofreading and correcting errors in the DNA sequence

d) Synthesizing RNA molecules

4. What is semi-conservative replication?

a) The process of making an exact copy of a DNA molecule

b) The process of breaking down DNA molecules

c) The process of DNA repair

d) Each new DNA molecule contains one strand from the original molecule and one newly synthesized strand

5. Why is understanding DNA replication important?

a) It allows scientists to study how genetic information is passed from one generation to the next.

b) It helps scientists study the behavior of birds.

c) It helps scientists understand the weather patterns.

d) It helps scientists develop new types of cars.

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