

Biology Unit

07: Molecular

Genetics

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1. Unit 07: Molecular Genetics

4. Chapter: Unit 07: Molecular Genetics

1. Unit 07: Molecular Genetics Questions

4.1.1. In Polymerase Chain Reaction, what is the function of primers?

Author: Ann Schlosser

In Polymerase Chain Reaction, what is the function of primers?

Please choose only one answer:

- Primers initiate the synthesis of DNA polymerase.
- Primers allow the double-stranded DNA to separate into single-stranded DNA.
- Primers activate the DNA polymerase to polymerize new DNA.
- Primers initiate the synthesis of DNA.

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4.1.2. What is the primary reaction catalyzed by DNA polymerases?

Author: Ann Schlosser

What is the primary reaction catalyzed by DNA polymerases?

Please choose only one answer:

- Addition of a deoxyribonucleoside 5'-triphosphate to a 3'-hydroxyl group
- Elimination of a phosphate group from ATP
- Addition of a 3'-hydroxyl to a deoxyribonucleoside 5'-triphosphate group
- Elimination of an adenosine nucleotide from a deoxyribonucleoside 5'-triphosphate group

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4.1.3. Which of the following did Mendel's experiments demonstrate?

Author: Ann Schlosser

Which of the following did Mendel's experiments demonstrate?

Please choose only one answer:

- Neither parent contributes any factors of each trait(s) shown in the offspring.
- The two members of each pair of factors segregate from each other during gamete formation.
- Inheritance is best described by the blending theory.
- Males contribute more than females to the traits in their offspring.

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4.1.4. Which of the following statements about DNA replication is true?

Author: Ann Schlosser

Which of the following statements about DNA replication is true?

Please choose only one answer:

- Okazaki fragments are newly synthesized DNA that occur on the 5' to 3' direction on the template DNA.
- DNA unwinds spontaneously before replication.
- DNA polymerase only reads in one direction.
- In eukaryotic cells, there is only one type of DNA polymerase.

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