

Did you understand the DNA-replication? Please answer to the questions:

1. Choose the correct statement:

- The DNA-replication serves to make an identical copy of the leading and lagging strand template of the DNA.
- The DNA-replication serves to make a RNA copy of the leading strand template.
- The DNA-replication is an important part during the cell division.
- The DNA-replication is the process of producing two identical replicas from the DNA.

2. What's the name of the enzyme that adds the nucleotides into the new strand?

3. Choose the correct statement:

- During the DNA-replication the DNA-double strand is opened and both strands are divided and a copy of each strand is made.
- During the DNA-replication the DNA-double strand is opened only the leading strand template is copied.
- During the DNA-replication the DNA stays as double strand and a copy of both strands is made.

4. Which words are not related to DNA-replication

- primer
- mitosis
- leading strand
- lagging strand
- RNA
- helicase
- polymerase
- ligase
- ribosome

5. The replication is done

- in the 5' to 3' direction.
- in the 3' to 5' direction
- in both (3'-5' and 5'-3') directions

6. Choose the correct statement:

The Okazaki fragments

- are short DNA-fragments of the lagging strand
- are short DNA-fragments of the leading strand
- are joined together by DNA-Ligase

Solutions

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- **DNA- Polymerase (III)**

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