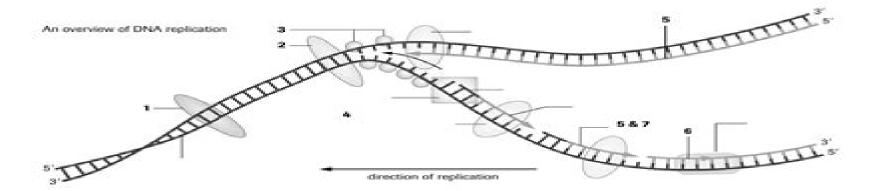
### DNA Replication—An Overview

- The enzyme \_\_\_\_\_\_ relieves any tension from the unwinding of the double helix.
- The enzyme \_\_\_\_\_\_breaks the hydrogen bonds holding the two complementary parent strands together, resulting in an unzipped helix that terminates at the \_\_\_\_\_\_.
- anneal to the newly exposed template strands, preventing them from reannealing.
- The enzyme \_\_\_\_\_\_lays down RNA primers that will be used by \_\_\_\_\_\_ as a starting point to build the new complementary strands.
- 5. \_\_\_\_\_adds the appropriate deoxyribonucleoside triphosphates to the 3' end of the new strand using the template strand as a guide.
  The energy in the phosphate bonds is used to drive the process. The
  \_\_\_\_\_strand is built continuously toward the replication fork. A
  \_\_\_\_\_strand composed of short segments of DNA, known as
  \_\_\_\_\_, is built discontinuously away from the replication fork.
- 6. \_\_\_\_\_excises the RNA primers and replaces them with the appropriate deoxyribonucleotides. \_\_\_\_\_joins the gaps in the Okazaki fragments by the creation of a \_\_\_\_\_bond.
- and \_\_\_\_\_\_proofread by excising incorrectly paired nucleotides at the end of the complementary strand and adding the correct nucleotides.



# **Biology Dna Replication Exam Study Guide**

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