

1. What is the function of single-strand-binding proteins?

- A. unwind the double helix by breaking hydrogen bonding between the two strands at the replication fork**
- B. bind to oriC and cause a short section of DNA to unwind**
- C. connect Okazaki fragments by sealing nicks in the sugar-phosphate backbone**
- D. prevent the formation of secondary structures within single-stranded DNA**
- E. reduce the torsional strain that builds up ahead of the replication fork as a result of winding: prevent the formation of secondary structures within single-stranded DNA**

2. DNA polymerase I and DNA polymerase III both have _____ activity but only DNA polymerase I has _____ activity.

- A. 3'-5' exonuclease, 5'-3' exonuclease**
- B. 5'-3' polymerase, 3'-5' exonuclease**
- C. 3'-5' polymerase, 3'-5' polymerase**
- D. 5'-3' polymerase, 3'-5' polymerase**
- E. 5'-3' exonuclease, 3'-5' exonuclease: 3' - 5' exonuclease; 5' - 3' exonuclease**

3. The Holliday model describes which of the following processes?: homologous recombination

4. What is the function of DNA gyrase?

- A. connects w okazaki fragments by sealing nicks in the sugar phosphate backbone**
- B. prevents the formation of secondary structures within single stranded DNA**
- C. binds to oriC and causes a short section of DNA to unwind**
- D. unwinds the double helix by breaking the hydrogen bonding between the two strands at the replication fork**
- E. reduces the torsional strain that builds up ahead of the replication fork as a result of unwinding: reduces the torsional strain that builds up ahead of the replication fork as a result of unwinding**

5. The nuclear genome of a single human cell (i.e., the entire diploid complement) contains about 6.6 billion (6.6×10^9) base pairs of DNA. If synthesis at each replication fork moves along the template at an average rate of 50 nucleotides per second and all the DNA is replicated in 5 minutes, how many origins of replication exist in a human diploid cell? Assume that replication

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