

Spring 2022 BIO 202 Practice Exam 4 Chapters 16 - 20

1) In a eukaryotic cell that lacks telomerase.....

- A) the production of Okazaki fragments would decrease
- B) there would be an inability to repair thymine dimers
- C) there would be a higher incidence of mutations
- D) there would be fewer origins of replication
- E) chromosomes would shorten with each round of cell division

2) DNA polymerase III has a subunit with exonuclease activity. What does this subunit do?

- A) It removes a segment of DNA that surrounds a mutation.
- B) It adds nucleotide triphosphates to the 3' end of the growing DNA strand.
- C) It attaches the Okazaki fragments to one another.
- D) It hydrolyzes the phosphodiester bond to remove a wrong nucleotide that was added during DNA synthesis.
- E) It displaces the RNA primer and replaces it with DNA.

3) Put the following steps of DNA replication in chronological order.

1. Single-stranded binding proteins attach to DNA strands.
2. Hydrogen bonds between base pairs of antiparallel strands are broken.
3. Primase binds to the origin.
4. DNA polymerase attaches to the template strands.
5. RNA primers are created.

- A) 1, 2, 3, 4, 5
- B) 2, 1, 3, 5, 4
- C) 3, 5, 2, 1, 4
- D) 3, 2, 1, 5, 4

4) In a bacterial cell undergoing DNA replication, scientists examined the sizes of the newly synthesized fragments and found very large DNA molecules (thousands or even millions of nucleotides long), and very short DNA molecules (several hundred to a few thousand nucleotides in length). These two size classes of DNA probably represent

- A) lagging strands and Okazaki fragments.
- B) RNA primers and mitochondrial DNA.
- C) Okazaki fragments and RNA primers.
- D) leading strands and Okazaki fragments.
- E) leading strands and RNA primers.

5) A fragment of double-stranded DNA has 30% G, what percentage of A will this DNA have?

- A) 60% A
- B) 40% A
- C) 30% A
- D) 20% A
- E) 15% A

6) Regarding genomic DNA, the term "antiparallel" refers to the fact that.....

- A) Base pairings create unequal spacing between the two DNA strands.
- B) One strand contains only purines and the other contains only pyrimidines.
- C) The two strands of the double helix are twisted in opposite directions.
- D) The major groove and minor groove are on opposite sides of the double helix.

Bio Guide Ch 20 Answers

Julia Schneider



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