

# Biology 14

# DNA Structure and Function

# MCQ

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## 4. Chapter: Biology 14 DNA Structure and Function MCQ

### 1. Biology 14 DNA Structure and Function MCQ Questions

#### 4.1.1. If DNA of a particular species was analyzed and it was found that i...

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If DNA of a particular species was analyzed and it was found that it contains 27 percent A, what would be the percentage of C?

Please choose only one answer:

- 27 percent
- 30 percent
- 23 percent
- 54 percent

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [If DNA of a particular species was analyzed OpenStax College Biology](http://www.quizover.com/question/if-dna-of-a-particular-species-was-analyzed-openstax-college-biology?pdf=1505)

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#### 4.1.2. The experiments by Hershey and Chase helped confirm that DNA was th...

Author: OpenStax College

The experiments by Hershey and Chase helped confirm that DNA was the hereditary material on the basis of the finding that:

Please choose only one answer:

- radioactive phage were found in the pellet
- radioactive cells were found in the supernatant
- radioactive sulfur was found inside the cell
- radioactive phosphorus was found in the cell

Check the answer of this question online at QuizOver.com:

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### 4.1.3. DNA double helix does not have which of the following?

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DNA double helix does not have which of the following?

Please choose only one answer:

- antiparallel configuration
- complementary base pairing
- major and minor grooves
- uracil

Check the answer of this question online at QuizOver.com:

Question: [DNA double helix does not have which of OpenStax College Biology](#)

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#### 4.1.4. In eukaryotes, what is the DNA wrapped around?

Author: OpenStax College

In eukaryotes, what is the DNA wrapped around?

Please choose only one answer:

- single-stranded binding proteins
- sliding clamp
- polymerase
- histones

Check the answer of this question online at QuizOver.com:

Question: [In eukaryotes what is the DNA wrapped OpenStax College Biology 14](#)

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#### 4.1.5. Meselson and Stahl's experiments proved that DNA replicates by whic...

Author: OpenStax College

Meselson and Stahl's experiments proved that DNA replicates by which mode?

Please choose only one answer:

- conservative
- semi-conservative
- dispersive
- none of the above

Check the answer of this question online at QuizOver.com:

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4.1.6. If the sequence of the 5'-3' strand is AATGCTAC, then the complemen...

Author: OpenStax College

If the sequence of the 5'-3' strand is AATGCTAC, then the complementary sequence has the following sequence:

Please choose only one answer:

- 3'-AATGCTAC-5'
- 3'-CATCGTAA-5'
- 3'-TTACGATG-5'
- 3'-GTAGCATT-5'

Check the answer of this question online at QuizOver.com:

Question: [If the sequence of the 5'-3' strand is OpenStax College Biology 1](#)

Flashcards:

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#### 4.1.7. Which of the following components is not involved during the format...

Author: OpenStax College

Which of the following components is not involved during the formation of the replication fork?

Please choose only one answer:

- single-strand binding proteins
- helicase
- origin of replication
- ligase

Check the answer of this question online at QuizOver.com:

Question: [Which of the following components is not OpenStax College Biology](#)

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#### 4.1.8. Which of the following does the enzyme primase synthesize?

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Which of the following does the enzyme primase synthesize?

Please choose only one answer:

- DNA primer
- RNA primer
- Okazaki fragments
- phosphodiester linkage

Check the answer of this question online at QuizOver.com:

Question: [Which of the following does the enzyme OpenStax College Biology 1](#)

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#### 4.1.9. In which direction does DNA replication take place?

Author: OpenStax College

In which direction does DNA replication take place?

Please choose only one answer:

- 5'-3'
- 3'-5'
- 5'
- 3'

Check the answer of this question online at QuizOver.com:

Question: [In which direction does DNA replication OpenStax College Biology](#)

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#### 4.1.10. The ends of the linear chromosomes are maintained by

Author: OpenStax College

The ends of the linear chromosomes are maintained by

Please choose only one answer:

- helicase
- primase
- DNA pol
- telomerase

Check the answer of this question online at QuizOver.com:

Question: [The ends of the linear chromosomes are OpenStax College Biology 1](#)

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#### 4.1.11. During proofreading, which of the following enzymes reads the DNA?

Author: OpenStax College

During proofreading, which of the following enzymes reads the DNA?

Please choose only one answer:

- primase
- topoisomerase
- DNA pol
- helicase

Check the answer of this question online at QuizOver.com:

Question: [During proofreading which of the following OpenStax College Biology](#)

Flashcards:

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4.1.12. The initial mechanism for repairing nucleotide errors in DNA is \_\_\_\_...

Author: OpenStax College

The initial mechanism for repairing nucleotide errors in DNA is \_\_\_\_\_.

Please choose only one answer:

- mismatch repair
- DNA polymerase proofreading
- nucleotide excision repair
- thymine dimers

Check the answer of this question online at QuizOver.com:

Question: [The initial mechanism for repairing OpenStax College Biology 14 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/the-initial-mechanism-for-repairing-openstax-college-biology-14-quest?pdf=1505>

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