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QUESTION 1



Select the correct answer.

Where are genes found?

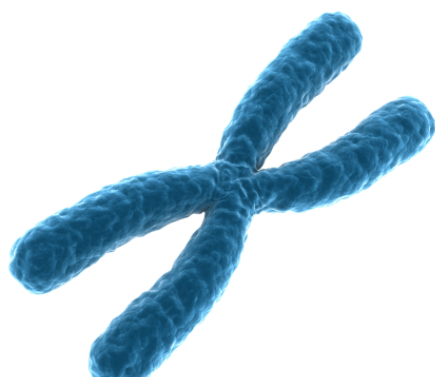
☐ In an organism's brain☐ In an organism's environment.☒ In an organism's DNA☐ In an organism's traits

QUESTION 2



Select the correct answer.

Which picture shows a DNA molecule?



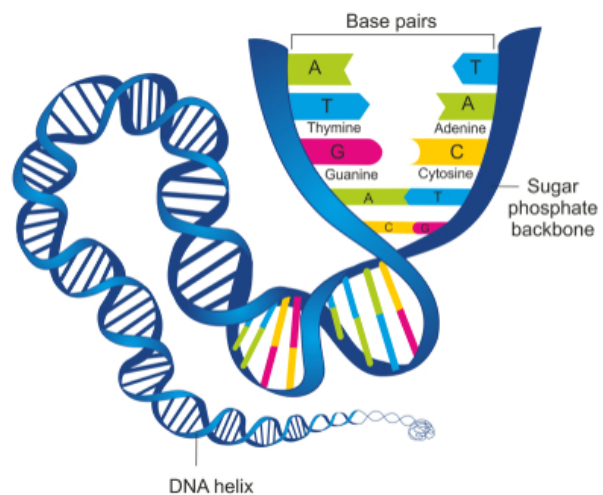


QUESTION 3



Select the correct answer.

What does G pair up within DNA?



A

☒ C

☐ G

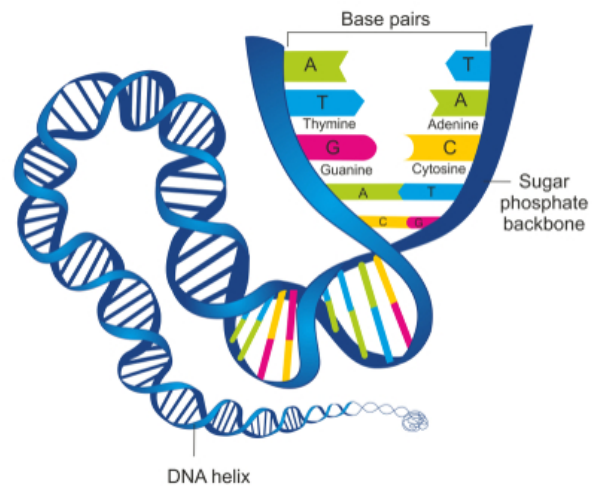
☐ T

QUESTION 4



Select the correct answer.

Which chemical does A make a base pair within DNA?



☐ G

☐ C



A



T



QUESTION 5



Select the correct answer.

What causes variation in traits?



An organism moving to live somewhere else causes variation in traits.



Replication of DNA causes variation in traits.



An organism growing and getting older causes variation in traits.



Mutations in DNA and genes cause variation in traits.



QUESTION 6



Select the correct answer.

What is a mutation to DNA?



A mutation is when cells make proteins from DNA.



A mutation is when DNA is broken into smaller pieces.



A mutation is a permanent change to an organism's DNA.



A mutation is when traits are different within a species.

QUESTION 7



Select the correct answer.

After a deletion mutation, what kind of change would you see in a sequence of DNA?



The bases in the DNA would stay exactly the same.



There would be fewer bases in the DNA than before.



There would be more bases in the DNA than before.



The DNA would lose 1 of its strands.

QUESTION 8



Select the correct answer.

How does DNA change when an insertion mutation happens?

☐ A base in DNA is replaced with a different base.

☐ A base pair is removed from DNA.

☐ The DNA is broken into smaller molecules.

☒ An extra base is added to DNA.



QUESTION 9

*Select the correct answer.*

How does DNA change when a substitution mutation happens?

☐ An extra base is added to DNA.

☒ A base in DNA is replaced with a different base.



☐ A base is removed from DNA.

☐ The DNA is broken into smaller molecules.

QUESTION 10



Select the correct answer.

How does DNA change when a deletion mutation happens?



☒ A base pair is removed from DNA.



☐ The DNA is broken into smaller molecules.

☐ An extra base is added to DNA.

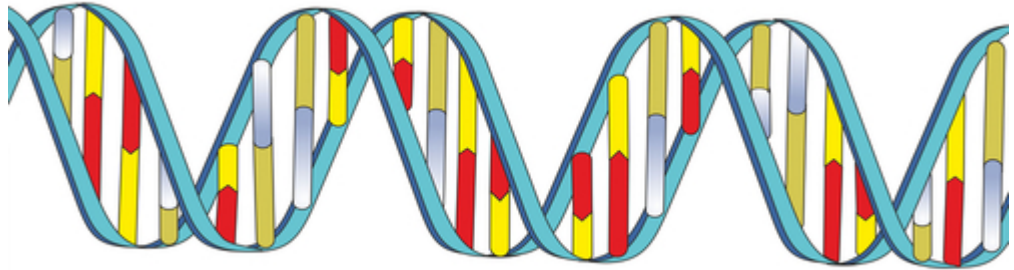
☐ A base is duplicated in the DNA.

QUESTION 11



Select the correct answer.

What are the four chemicals of DNA?

☐

D, N, A, and G

☐

A, C, G, and U

☒

A, C, G, and T

☐

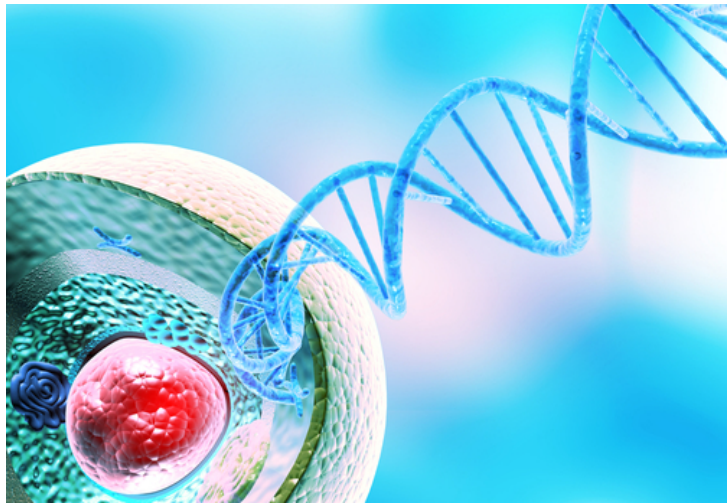
A, B, C, and D

QUESTION 12



Select the correct answer.

What is DNA?



☐ DNA is a physical characteristic of an organism.

☐ DNA is where the chromosomes are found in a cell.

☒ DNA is the molecule that has all of the genetic information of an organism. ✓

☐ DNA is the center of a cell.

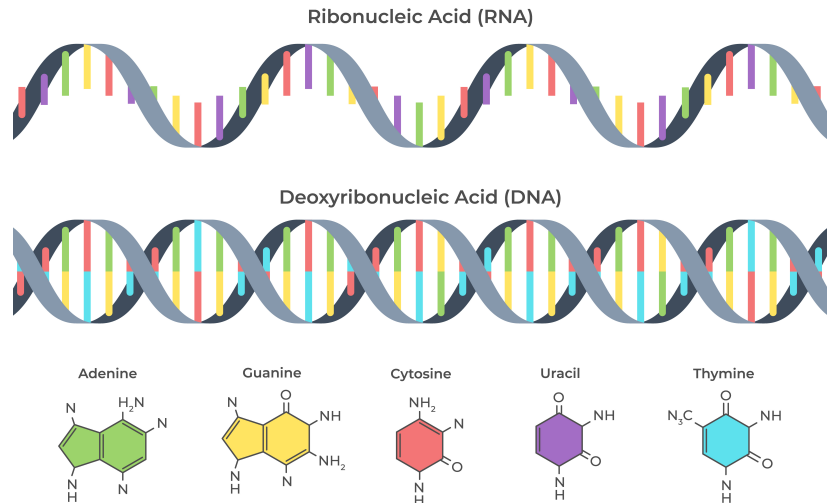
QUESTION 13



Select the correct answer.

Which option is the correct difference between DNA and RNA?

STRUCTURAL DIFFERENCE BETWEEN DNA & RNA


☐

DNA is made of 4 chemicals but RNA is only made of 1.

☐

RNA is made of 4 chemicals but DNA is only made of 1 chemical.

☐

RNA has 2 strands but DNA only has 1.

DNA has 2 strands, but RNA only has 1.



QUESTION 14



Select the correct answer.

Before a mutation, a sequence of DNA was ACGC. After mutation, the sequence was ACGG. Which type of mutation happened to this DNA sequence?

☐

Deletion



Insertion



Substitution



Translation

QUESTION 15



Select the correct answer.

What is a trait?



A trait is a physical characteristic of an organism.



A trait is an organism's name.



A trait is where an organism lives.



A trait is how old an organism is.