BRITISH COLUMBIA SCIENCE 10 · UNIT A · 5 QUESTIONS

DNA and the Diversity of Living Things — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **Bright green plant leaves in sunlight. A plant has genotype AA. The term for this genotype is**



A heterozygous

B hybrid

C homozygous dominant

D recessive

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2 **Two organisms have the same phenotype but different genotypes. This is possible because**

- A the dominant allele hides the recessive allele in a heterozygote
- B phenotype is decided by the environment alone
- C genotype and phenotype mean the same thing
- D recessive alleles are never inherited

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3 **A tall pea plant with genotype Aa is crossed with a short plant with genotype aa. The percent of offspring expected to be short is**

- A 25 percent
- B 75 percent
- C 100 percent
- D 50 percent

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4 **A mutation that occurs in a body cell of an adult is**

A passed to all of the adult children

B not passed to the adult children

C always repaired before cell division

D passed only to daughters

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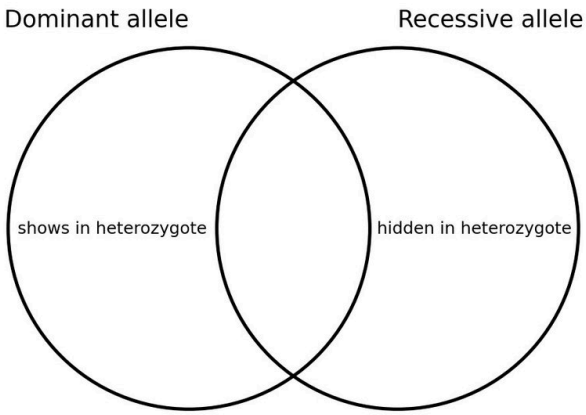
5

The diagram compares a dominant allele and a recessive allele. The statement in the overlapping region is



Question 5

The diagram compares a dominant allele and a recessive allele. The statement in the overlapping region is

A) they are found only in animals

B) they always show in the phenotype

C) they are different forms of the same gene

D) they are located on different chromosomes

A they are found only in animals

B they always show in the phenotype

C they are different forms of the same gene

D they are located on different chromosomes

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ANSWER KEY

1. C
2. A
3. D
4. B
5. C

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