YUKON SCIENCE 10 · UNIT A · 5 QUESTIONS

DNA and the Diversity of Living Things — Practice Test

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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

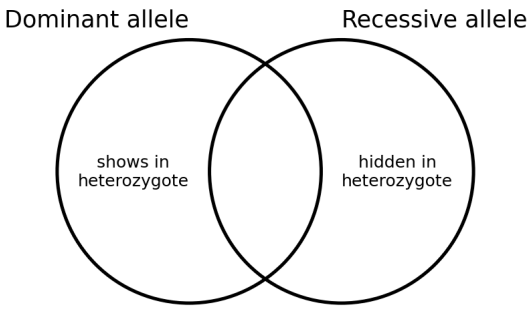
B not passed to the adult children

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**



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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