VIRGINIA BIOLOGY · UNIT 2 · 5 QUESTIONS

Genetics and Heredity — 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

A test cross mates an organism of unknown genotype with an organism that is

A Heterozygous

B Unrelated

C Homozygous dominant

D Homozygous recessive

Understand It with Pulse

Flag a mistake

2 **Genes located close together on the same chromosome tend to be inherited**

A Independently

B Together

C Only in males

D Only in females

Understand It with Pulse | Flag a mistake

3 **A colourful DNA double helix model sits on a laboratory bench. An insertion mutation adds a base to a DNA sequence and may cause a**



A Frameshift

B Codon

C Chromosome

D Gamete

Understand It with Pulse | Flag a mistake

4 **A substitution mutation replaces one base with another base and may**

A Change one amino acid

B Double the chromosome number

C Remove a whole gene

D Stop meiosis

Understand It with Pulse | Flag a mistake

5 **Polygenic traits such as human height are controlled by**

A One gene

B Many genes

C One chromosome

D No genes

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.