ARIZONA 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 **Young green pea plants growing in rows in a garden bed. Gregor Mendel studied inheritance in pea plants and concluded that each trait is controlled by**



A Factors passed from parents

B Blending of parental traits

C The environment only

D Learned behavior

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2 **The law of segregation states that the two alleles for a gene separate during the formation of**

A Zygotes only

B Body cells

C Proteins

D Gametes

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3 **A genotype of TT is described as**

A Homozygous recessive

B Haploid

C Homozygous dominant

D Heterozygous

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4 **In pea plants purple flowers are dominant to white flowers A heterozygous purple plant crossed with a white plant gives an expected fraction of white offspring of**

ANSWER

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5 **A plant with genotype Rr is crossed with a plant with genotype rr, where R is round seeds The expected number of round seeded plants out of 200 offspring is**

ANSWER

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ANSWER KEY

1. A
2. D
3. C
4. 0.5
5. 100

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