DELAWARE BIOLOGY · UNIT 2 · 10 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 **Which term is defined as follows: a change in DNA sequence?**

- A gene
- B allele
- C mutation
- D dominant allele

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2 **Which of the following is an example of mutation?**

- A a recipe for one protein
- B the brown eye version of an eye color gene
- C an allele that masks a recessive allele
- D a spelling change in a gene

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3 **Which statement best describes mutation?**

A mutations can be harmful, helpful, or neutral

B genes are units of heredity carried on chromosomes

C an organism inherits one allele from each parent for each gene

D a dominant allele shows its trait in a heterozygote

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4 **Which term is defined as follows: a diagram that predicts offspring genotypes?**

A gene

B allele

C dominant allele

D Punnett square

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5 **Which of the following is an example of Punnett square?**

A a grid showing possible allele combinations

B a recipe for one protein

C the brown eye version of an eye color gene

D an allele that masks a recessive allele

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6 **Which statement best describes Punnett square?**

A genes are units of heredity carried on chromosomes

B a Punnett square shows probabilities, not certainties

C an organism inherits one allele from each parent for each gene

D a dominant allele shows its trait in a heterozygote

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7 **Which term is defined as follows: a chromosome that helps determine sex?**

A sex chromosome

B gene

C allele

D dominant allele

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8 **Which of the following is an example of sex chromosome?**

A a recipe for one protein

B the X and Y chromosomes in humans

C the brown eye version of an eye color gene

D an allele that masks a recessive allele

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9 **Which statement best describes sex chromosome?**

A genes are units of heredity carried on chromosomes

B an organism inherits one allele from each parent for each gene

C humans with XX are typically female and XY typically male

D a dominant allele shows its trait in a heterozygote

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10 **Which term is defined as follows: a person who carries a recessive allele without showing the trait?**

A gene

B carrier

C allele

D dominant allele

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ANSWER KEY

1.	C	**5.**	A	**9.**	C
2.	D	**6.**	B	**10.**	B
3.	A	**7.**	A		
4.	D	**8.**	B		

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