DELAWARE BIOLOGY · UNIT 2 · 25 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 section of DNA that codes for a protein?**

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

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

- A the brown eye version of an eye color gene
- B a recipe for one protein
- C an allele that masks a recessive allele
- D an allele hidden by a dominant allele

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3 **Which statement best describes gene?**

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

B a dominant allele shows its trait in a heterozygote

C genes are units of heredity carried on chromosomes

D a recessive trait appears in a homozygote recessive organism

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4 **Which term is defined as follows: one version of a gene?**

A gene

B allele

C dominant allele

D recessive allele

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5 **Which of the following is an example of allele?**

A a recipe for one protein

B an allele that masks a recessive allele

C the brown eye version of an eye color gene

D an allele hidden by a dominant allele

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6 **Which statement best describes allele?**

A genes are units of heredity carried on chromosomes

B a dominant allele shows its trait in a heterozygote

C a recessive trait appears in a homozygote recessive organism

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

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7 **Which term is defined as follows: an allele that is expressed when present?**

A gene

B allele

C dominant allele

D recessive allele

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8 **Which of the following is an example of dominant allele?**

A a recipe for one protein

B the brown eye version of an eye color gene

C an allele hidden by a dominant allele

D an allele that masks a recessive allele

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9 **Which statement best describes dominant allele?**

A a dominant allele shows its trait in a heterozygote

B genes are units of heredity carried on chromosomes

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

D a recessive trait appears in a homozygote recessive organism

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10 **Which term is defined as follows: an allele expressed only when two copies are present?**

A gene

B allele

C dominant allele

D recessive allele

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11 **Which of the following is an example of recessive allele?**

- A an allele hidden by a dominant allele
- 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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12 **Which statement best describes recessive allele?**

- A genes are units of heredity carried on chromosomes
- B a recessive trait appears in a homozygote recessive organism
- 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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13 **Which term is defined as follows: the alleles an organism carries?**

A genotype

B gene

C allele

D dominant allele

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14 **Which of the following is an example of genotype?**

A a recipe for one protein

B the letters Bb for a gene

C the brown eye version of an eye color gene

D an allele that masks a recessive allele

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15 **Which statement best describes genotype?**

A genes are units of heredity carried on chromosomes

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

C genotype is the genetic makeup, not the visible trait

D a dominant allele shows its trait in a heterozygote

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16 **Which term is defined as follows: the observable traits of an organism?**

A gene

B phenotype

C allele

D dominant allele

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17 **Which of the following is an example of phenotype?**

A a recipe for one protein

B the brown eye version of an eye color gene

C brown eyes in a person

D an allele that masks a recessive allele

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18 **Which statement best describes phenotype?**

A genes are units of heredity carried on chromosomes

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

C a dominant allele shows its trait in a heterozygote

D phenotype results from genotype + environment

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19 **Which term is defined as follows: having two identical alleles for a gene?**

A gene

B allele

C homozygous

D dominant allele

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20 **Which of the following is an example of homozygous?**

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 carrying BB or bb

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21 **Which statement best describes homozygous?**

A a homozygous organism passes the same allele to all offspring for that gene

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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22 **Which term is defined as follows: having two different alleles for a gene?**

A gene

B allele

C dominant allele

D heterozygous

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23 **Which of the following is an example of heterozygous?**

- A carrying Bb
- 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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24 **Which statement best describes heterozygous?**

- A genes are units of heredity carried on chromosomes
- B a heterozygous organism can pass either allele to offspring
- 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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25

Which term is defined as follows: cell division that produces cells with half the chromosome number?

A meiosis

B gene

C allele

D dominant allele

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ANSWER KEY

1. A
2. B
3. C
4. B
5. C
6. D
7. C
8. D
9. A
10. D
11. A
12. B
13. A
14. B
15. C
16. B
17. C
18. D
19. C
20. D
21. A
22. D
23. A
24. B
25. A

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