CONNECTICUT 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 matches this description: a DNA segment coding for a trait**

- A Gene
- B Allele
- C Dominant allele
- D Recessive allele

Understand It with Pulse | Flag a mistake

2 **Which term matches this description: a version of a gene**

- A Dominant allele
- B Allele
- C Recessive allele
- D Genotype

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3 **Which term matches this description: an allele expressed when present**

- A Recessive allele
- B Genotype
- C Dominant allele
- D Phenotype

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4 **Which term matches this description: an allele expressed only with two copies**

- A Genotype
- B Phenotype
- C Homozygous
- D Recessive allele

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5 **Which term matches this description: the genetic makeup of an organism**

A Genotype

B Phenotype

C Homozygous

D Heterozygous

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6 **Which term matches this description: the observable traits of an organism**

A Homozygous

B Phenotype

C Heterozygous

D Punnett square

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7 **Which term matches this description: having two identical alleles for a gene**

A Heterozygous

B Punnett square

C Homozygous

D Meiosis

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8 **Which term matches this description: having two different alleles for a gene**

A Punnett square

B Meiosis

C Mitosis

D Heterozygous

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9 **Which term matches this description: a diagram predicting offspring genotypes**

A Punnett square

B Meiosis

C Mitosis

D Mutation

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10 **Which term matches this description: cell division producing gametes with half the chromosomes**

A Mitosis

B Meiosis

C Mutation

D Chromosome

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11 **Which term matches this description: cell division producing two identical daughter cells**

- A Mutation
- B Chromosome
- C Mitosis
- D Gamete

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12 **Which term matches this description: a change in a DNA sequence**

- A Chromosome
- B Gamete
- C Zygote
- D Mutation

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13 **Which term matches this description: a structure of coiled DNA and protein**

A Chromosome

B Gamete

C Zygote

D Crossing over

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14 **Which term matches this description: a reproductive cell such as an egg or sperm**

A Zygote

B Gamete

C Crossing over

D Independent assortment

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15 **Which term matches this description: a cell formed by fusion of two gametes**

A Crossing over

B Independent assortment

C Zygote

D Pedigree

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16 **Which term matches this description: exchange of segments between homologous chromosomes**

A Independent assortment

B Pedigree

C Carrier

D Crossing over

Understand It with Pulse | Flag a mistake

17 **Which term matches this description: separate inheritance of different genes**

A Independent assortment

B Pedigree

C Carrier

D Sex linked trait

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18 **Which term matches this description: a chart tracing traits through a family**

A Carrier

B Pedigree

C Sex linked trait

D Gene

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19 **Which term matches this description: a person with one recessive allele who does not show a trait**

A Sex linked trait

B Gene

C Carrier

D Allele

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20 **Which term matches this description: a trait carried on a sex chromosome**

A Gene

B Allele

C Dominant allele

D Sex linked trait

Understand It with Pulse | Flag a mistake

21 **Which statement about Gene is correct**

A a DNA segment coding for a trait

B a version of a gene

C an allele expressed when present

D an allele expressed only with two copies

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22 **Which statement about Allele is correct**

A an allele expressed when present

B a version of a gene

C an allele expressed only with two copies

D the genetic makeup of an organism

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23 **Which statement about Dominant allele is correct**

- A an allele expressed only with two copies
- B the genetic makeup of an organism
- C an allele expressed when present
- D the observable traits of an organism

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24 **Which statement about Recessive allele is correct**

- A the genetic makeup of an organism
- B the observable traits of an organism
- C having two identical alleles for a gene
- D an allele expressed only with two copies

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25 **Which statement about Genotype is correct**

A the genetic makeup of an organism

B the observable traits of an organism

C having two identical alleles for a gene

D having two different alleles for a gene

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ANSWER KEY

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

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