ARKANSAS 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 pedigree square symbol represents a**

- A Male
- B Female
- C Carrier only
- D Affected female only

Understand It with Pulse | Flag a mistake

2 **In a pedigree, a shaded symbol normally means the person**

- A Is a carrier only
- B Expresses the trait being tracked
- C Is unaffected
- D Is not yet born

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3 **Colourful plastic model of a DNA double helix, red, green, blue and yellow rungs, clear spiral frame on a white base, large in frame. A mutation is a change in the DNA sequence, and a point mutation that changes one base is called a**



A Deletion of a chromosome

B Nondisjunction

C Substitution

D Crossing over

Understand It with Pulse | Flag a mistake

4 **A frameshift mutation is most likely after a base is**

- A Substituted with no shift
- B Copied exactly
- C Repaired perfectly
- D Inserted or deleted, shifting later codons

Understand It with Pulse | Flag a mistake

5 **A silent mutation changes a DNA base but does not change the amino acid, because the genetic code is**

- A Redundant, with several codons per amino acid
- B Read only once
- C Without stop codons
- D Made of two bases only

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ANSWER KEY

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

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