

AP Bio Unit 5

Heredity Quizzes Bundle

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Biology Unit 5.2 Meiosis and Genetic Variation

Answer all questions using your knowledge of genetic variation.

1. _____ genetic variation _____ the likelihood

- a. More; increases
- b. More; decreases
- c. Less; increases
- d. Less; doesn't change

2. A _____ is a _____ that infects b _____ and can increase genetic variation.

- a. plasmid; virus
- b. eukarya; bacteriophage
- c. virus; bacteriophage
- d. bacteriophage; virus

3. Horizontal gene transfer in prokaryotes is _____ variation.

- a. transduction; increases
- b. transduction; decreases
- c. transformation; increases
- d. transformation; decreases

4. Crossing over swaps genetic material between

- a. sister chromatids of non-homologous
- b. non-sister chromatids of non-homologous
- c. sister chromatids of homologous chromosomes
- d. non-sister chromatids of homologous chromosomes

5. Genetic variation in eukaryotes is increased by

- a. crossing over, transduction, and conjugation
- b. crossing over, independent assortment, and random fertilization
- c. independent assortment, transduction, and random fertilization
- d. random fertilization, conjugation, and independent assortment

Mendelian Genetics

Page 5

AP Biology Mendelian Genetics Review 5

Concept review for AP Biology Unit 5: Heredity

On a pedigree chart, _____ represent females. *

- ☐ circles
- ☐ squares
- ☐ lines
- ☐ dotted lines



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NARAYAN CHANGDER



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