

AP Biology Chapter 17 & 18 Reading Guide

1. Population genetics puts a mathematical approach to the study of microevolution. Define each of the terms commonly used in population genetics.

- a. population:
- b. gene pool:
- c. gene frequency:

2. List five conditions that must be met by a population to insure stability (no evolution).

- a.
- b.
- c.
- d.
- e.

3. Assuming Hardy-Weinberg distribution of genes in a population, write the equation that describes genotype frequencies.

4. Define the following:

- a. p^2 =
- b. $2pq$ =
- c. q^2 =

5. Work out these practice problems. Assuming H-W equilibrium, find both the allele and genotype frequencies.
 a. In *Drosophila*, the allele for normal length wings is dominant over the allele for vestigial wings. In a population of 1,000 individuals, 160 show the recessive phenotype.

- 1. allele frequencies: dominant allele (**W**) = _____; recessive allele (**w**) = _____
- 2. genotype frequencies: **WW** = _____; **Ww** = _____; **ww** = _____

b. The allele for the hair pattern called "widow's peak" is dominant over the allele for no "widow's peak." In a population of 1,000 individuals, 360 show the dominant phenotype.

- 1. allele frequencies: dominant allele (____) = _____; recessive allele (____) = _____
- 2. genotype frequencies: _____ = _____; _____ = _____; _____ = _____

6. How does genetic drift apply to each of the following? Give an example of each.

- a. Founders effect:
- b. Bottleneck effect

Ap Biology Chapter 17 Reading Answers

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Quirk, Howard F. Horton**



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culture gene interactions launched our species on an extraordinary evolutionary trajectory Tracking clues from our ancient past to the present *The Secret of Our Success* explores how the evolution of both our cultural and social natures produce a collective intelligence that explains both our species immense success and the origins of human uniqueness *5 Steps to a 5 AP Biology 2016* Mark Anestis, Kellie Ploeger Cox, 2015-08-07 Get ready for your AP Biology exam with this straightforward easy to follow study guide updated for all the latest exam changes *5 Steps to a 5 AP Biology* features an effective 5 step plan to guide your preparation program and help you build the skills knowledge and test taking confidence you need to succeed This fully revised edition covers the latest course syllabus and matches the latest exam The book provides access to McGraw Hill Education s interactive AP Planner app which will enable you to receive a customizable study schedule on your mobile device Bonus app features daily practice assignment notifications plus extra practice questions to assess test readiness 2 complete practice AP Biology exams 3 separate study plans to fit your learning style **5 Steps to a 5: AP Biology 2017 Cross-Platform Prep Course** Mark Anestis, Kellie Ploeger Cox, 2016-07-29 A proven 5 step study guide for today s digital learners preparing for the AP Biology exam The wildly popular test prep guide updated and enhanced for today s digital learners AP Biology Cross Platform Prep Course 2017 provides a proven strategy for achieving high scores on this demanding Advanced Placement exam as well as access to the whole course in print online and on mobile devices This logical and easy to follow instructional guide introduces an effective 5 step study plan to help students build the skills knowledge and test taking confidence they need to reach their full potential The book helps students master both multiple choice and free response questions and offers comprehensive answer explanations and sample responses Written by a test preparation tutor and an AP biology teacher this insider s guide reflects the latest course syllabus and includes 5 full length practice exams plus the most up to date scoring information With the Cross Platform edition of this title students can personalize an AP Biology study plan with daily goals utilize analytics to track their progress access flash cards and games for study on the go and practice answering AP level questions online or on their smartphones The *5 Steps to a 5 AP Biology 2017* effective 5 step plan breaks down test preparation into stages 1 Set Up Your Study Program 2 Determine Your Test Readiness 3 Develop Strategies for Success 4 Develop the Knowledge You Need to Score High 5 Build Your Test Taking Confidence 5 full length practice exams The *5 Steps to a 5* series has prepared millions of students for success **5 Steps to a 5 AP Biology, 2015 Edition** Mark Anestis, Kellie Ploeger Cox, 2014-07-14 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product This easy to follow study guide includes a complete course review full length practice tests and access to online quizzes and an AP Planner app *5 Steps to a 5 AP Biology* features an effective 5 step plan to guide your preparation program and help you build the skills knowledge and test taking confidence you need to succeed This fully revised edition covers the latest course syllabus and matches the latest exam It also includes access to McGraw Hill s AP Planner app which will enable you to create

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