

Ms. Chirby's AP Biology Review Packet

Thank you Ms Chirby!

Unit 1: Evolution and Classification

Thinking Practice Questions

1. As a field researcher you are sent to the Arizona desert to study the prairie dog species *C. ludovicianus* to determine if the population is in Hardy-Weinberg equilibrium. Specifically, you are studying this population with respect to the gene that determines the coat color in *C. ludovicianus*. This trait is coded for by a single gene (the NDY6 gene) with two alleles (N, n) and is passed down from one generation to the next. After sampling 170 of these prairie dogs, you find that 36% of the *C. ludovicianus* population is homozygous recessive for coat color. Assuming that the population is in Hardy-Weinberg equilibrium...

a. What is the allele frequency of the N allele?

$$q^2 = 0.36 \rightarrow q = 0.6 \dots p + q = 1 \text{ so } p = 0.4$$

b. What is the frequency of homozygous dominant prairie dogs?

$$p^2 = (0.4)^2 = 0.16$$

c. What is the frequency of heterozygous prairie dogs?

$$2pq = 2(0.4)(0.6) = 0.48$$

d. What conditions must be being satisfied for this population to be in HW equilibrium?

No natural selection, no sexual selection (random mating), no gene flow, no genetic drift, no mutation

2. Sixty flowering plants are planted in a flowerbed. Forty of the plants are red-flowering homozygous dominant. Twenty of the plants are white-flowering homozygous recessive. The plants naturally pollinate and reseed themselves for several years. In a subsequent year, 178 red-flowered plants, 190 pink-flowered plants, and 52 white-flowered plants are found in the flowerbed. Use a chi-square analysis to determine if the population is in Hardy-Weinberg equilibrium.

Total initial population size = 60

$$q^2 = 20/60 = 1/3 \rightarrow q = 0.577 \rightarrow p = 0.423$$

$$p^2 = 0.179$$

$$2pq = 2(0.423)(0.577) = 0.488$$

With a final population size of 420 (178+190+52), if the population is in HW equilibrium, the following values are expected (e)

$$\text{Red flowered plants} = 0.179 \times 420 = 75$$

$$\text{Pink flowered plants} = 0.488 \times 420 = 205$$

$$\text{White flowered plants} = 0.333 \times 420 = 140$$

Chi square analysis

Null Hypothesis : The observed values for red-flowered plants, pink-flowered plants, and white-flowered plants are not significantly different from the expected values predicted by HW equilibrium.

Phenotype	O	e	$(O-e)^2 / e$
Red	178	75	141
Pink	190	205	1
White	52	140	313
		Sum = χ^2	455

Ap Biology Reading Guide Answers Chapter 22

VM Jensen



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Immunology Richard A. Goldsby, 2003 The new edition of the acclaimed bestseller always praised for offering cutting edge material in the context of landmark experiments in a student friendly format built on pedagogy not usually found in immunology texts *Biology*, 1996 AP - Biology Gabrielle I. Edwards, Marion Cimmino, 2001 General advice on test preparation and Advanced Placement Test question types is followed by extensive topic reviews that cover molecules and cells genetics and evolution and organisms and populations Four full length model AP Biology exams are given followed by answers and explanations for all questions Chemistry John Christian Bailar, 1984 *Dreams* Robert J. Hoss, Katja Valli Ph.D., Robert P. Gongloff, 2019-01-11 This two volume set examines dreams and dreaming from a variety of angles biological psychological and sociocultural in order to provide readers with a holistic introduction to this fascinating subject Whether good or bad and whether we remember them or not each night every one of us dreams But what biological or psychological function do dreams serve What do these vivid images and strange storylines mean How have psychologists religions and society at large interpreted dreams and how can a closer examination of our dreams provide useful insights Dreams Understanding Biology Psychology and Culture presents a holistic view of dreams and the dreaming experience that answers these and many other questions Divided thematically this two volume book examines the complex and often misunderstood subject of dreaming through a variety of lenses This collection is written by a large and diverse team of experts and edited by leading members of the International Association for the Study of Dreams IASD but remains an approachable and accessible introduction to this captivating topic for all readers **Barron's how to Prepare for the Advanced Placement Examination AP Biology** Gabrielle I. Edwards, Marion Cimmino, 1992 This newly updated manual contains three model exams with answers and explanations plus a detailed review of college level biology that covers all AP exam topics Practical advice is also given for the essay question and short answer questions **Chemistry with Inorganic Qualitative Analysis** Therald Moeller, 1984 *The Oklahoma Teacher*, 1940 Fertility Counseling Sharon N. Covington, 2015-04-02 Using real world cases this clinical guide details the psychosocial challenges faced by patients navigating the world of medically assisted reproduction MAR It describes in depth the latest perspectives on counseling approaches to the evolving complexities of family creation whether fertility issues are a presenting problem or occur during the course of therapy or the aftermath of a struggle with infertility Applying an evidence based cross border approach international experts not only discuss advanced perspectives on topics such as third party reproduction pregnancy loss and adoption but also newer issues of fertility preservation older patient parenthood LGBT and singles family creation A comprehensive resource it explores pioneering insights into fertility counseling such as spirituality developing disclosure language a counselor s personal fertility issues and more This is an essential aid for medical and mental health professionals to develop and refine the skills needed to treat the increasingly diverse and complex needs of MAR patients Book Review Digest, 1923 *AP Computer Science*

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Table of Contents Ap Biology Reading Guide Answers Chapter 22

1. Understanding the eBook Ap Biology Reading Guide Answers Chapter 22
 - The Rise of Digital Reading Ap Biology Reading Guide Answers Chapter 22
 - Advantages of eBooks Over Traditional Books
2. Identifying Ap Biology Reading Guide Answers Chapter 22
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ap Biology Reading Guide Answers Chapter 22
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Biology Reading Guide Answers Chapter 22
 - Personalized Recommendations
 - Ap Biology Reading Guide Answers Chapter 22 User Reviews and Ratings
 - Ap Biology Reading Guide Answers Chapter 22 and Bestseller Lists

5. Accessing Ap Biology Reading Guide Answers Chapter 22 Free and Paid eBooks
 - Ap Biology Reading Guide Answers Chapter 22 Public Domain eBooks
 - Ap Biology Reading Guide Answers Chapter 22 eBook Subscription Services
 - Ap Biology Reading Guide Answers Chapter 22 Budget-Friendly Options
6. Navigating Ap Biology Reading Guide Answers Chapter 22 eBook Formats
 - ePub, PDF, MOBI, and More
 - Ap Biology Reading Guide Answers Chapter 22 Compatibility with Devices
 - Ap Biology Reading Guide Answers Chapter 22 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ap Biology Reading Guide Answers Chapter 22
 - Highlighting and Note-Taking Ap Biology Reading Guide Answers Chapter 22
 - Interactive Elements Ap Biology Reading Guide Answers Chapter 22
8. Staying Engaged with Ap Biology Reading Guide Answers Chapter 22
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ap Biology Reading Guide Answers Chapter 22
9. Balancing eBooks and Physical Books Ap Biology Reading Guide Answers Chapter 22
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ap Biology Reading Guide Answers Chapter 22
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ap Biology Reading Guide Answers Chapter 22
 - Setting Reading Goals Ap Biology Reading Guide Answers Chapter 22
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ap Biology Reading Guide Answers Chapter 22
 - Fact-Checking eBook Content of Ap Biology Reading Guide Answers Chapter 22
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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