

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

Chapter Reading Guide Answers

Mary Ellen Guffey



Chapter Reading Guide Answers:

Study Guide for Psychology, Seventh Edition Richard O. Straub, David G. Myers, 2003-06-20 This new edition continues the story of psychology with added research and enhanced content from the most dynamic areas of the field cognition gender and diversity studies neuroscience and more while at the same time using the most effective teaching approaches and learning tools

Paul Insel, R. Elaine Turner, Don Ross, 2009-04 The Student Study Guide provides a study aid for students and contains multiple choice questions review questions image labeling activities fill in the blanks critical thinking questions key terms and a note taking guide

Study Guide for Psychology David G. Myers, Richard O. Straub, 2006-04-07 This eighth edition of David G Myers Psychology includes expanded coverage of the most recent developments in this wide ranging field This text includes self tests and critical thinking exercises based on the concepts discussed in the eighth edition

PMP Project Management Professional Exam Study Guide Kim Heldman, 2011-08-16 Completely updated for the 2011 version of the PMP exam If you re preparing for the Project Management Professional PMP exam this thorough book is what you need Not only does it reflect the very latest version of the exam it is written by popular project management expert Kim Heldman author of the five previous editions of this top selling book and it also includes a CD with practice exams exam prep software electronic flashcards and over two hours of additional audio review All exam objectives as well as essential PMP topics concepts and key terms are covered Prepares candidates to take the Project Management Professional PMP exam as well as the Certified Associate Project Management CAPM exam both offered by the Project Management Institute PMI Covers all exam objectives plus a wide range of Project Management topics concepts and key terms Uses real world scenarios and How This Applies to Your Current Project sidebars to fully illustrate concepts Includes an invaluable CD with testing software practice exams electronic flashcards and over two hours of audio review Serves as a valuable go to book to keep on hand even after the exam Project management is a desired skill in today s IT marketplace PMP Project Management Professional Exam Study Guide Sixth Edition can help you prepare CD ROM DVD and other supplementary materials are not included as part of the e book file but are available for download after purchase CAPM PMI PMP and Project Management Professional are registered marks of the Project Management Institute Inc

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Human Development Crandell, Thomas Leon Crandell, Beiger, 1994 **The Developing Person Through Childhood and Adolescence Study Guide** Richard O. Straub, 2005-11-25 Each chapter includes a review of key concepts guided study questions and section reviews that encourage students active participation in the learning process two practice tests and a challenge test help them assess their mastery of the material Applications and observational activities are also included

Study Guide with Readings to Accompany Papalia and Olds Psychology Virginia Nichols Quinn, 1985 *America: History of Our Nation Adapted Interactive Reading and Notetaking Study Guide 2007c* Jim Davidson, Michael B. Staff, Prentice Hall Direct Education Staff, 2005-08 This edition was developed specifically for courses covering up to the Civil War or

Reconstruction The text can also be used for the first part of a two year American history course **Progressive Methods of Teaching** Martin James Stormzand, 1924 **Astronomy** Alton Biggs, 2002 **Business Communication** Mary Ellen Guffey, 1996 Business Communication Process and Product introduces a unique teaching learning package that solves a major problem for instructors and students today It provides the atmosphere of an exciting real life business environment for business communication without sacrificing sound pedagogy This means that students experience the enrichment of real people and real business situations while at the same time learning a hands on process that they can carry with them to apply long after they leave the classroom Business Communication Process and Product takes students inside some of the country's best run and most respected organizations such as Liz Claiborne Ben Jerry's American Airlines Bank of America and Walt Disney Imagineering More importantly though it balances this exposure with a well developed and consistently applied process approach to communication Students need more than real business settings in which to frame their learning They need a process that outlines specific steps to follow in solving future communication problems a tangible strategy they can apply in their careers In addition to a process we provide ample products of that process **Macroeconomics** William J. Boyes, Michael Melvin, 2004-02 Boyes and Melvin have developed the Sixth Edition of Economics to enhance its central features direct and accessible writing proven pedagogy and thorough integration of global economic issues The text's international perspective has been strengthened and extended to focus on the implications of economic principles for business strategy in an era of global competition International issues appear consistently throughout the text in examples that illustrate basic economic concepts In addition economic data drawn from around the world underscores the authors' long

standing emphasis on global issues Extended coverage of topics affecting global competitiveness such as resource pricing and foreign exchange markets explicitly connects the study of economics with real world business decisions New Chapter 19 Globalization now provides in depth coverage of this controversial phenomenon including the arguments for and against globalization and how it has affected economic growth and poverty worldwide New The Sixth Edition features greater coverage of macroeconomics including the large scale impact of war in Iraq the recent recession and the role of financial market development in economic growth All macroeconomic data has been updated to include statistics through 2002 and in some cases 2003 New Global Business Insight boxes illustrate essential economic concepts using thumbnail maps and examples from around the world including value added taxes the development of informal banking networks in the Islamic world and the World Trade Organization A consistent framework of instruction helps to improve students understanding and performance in the course Fundamental Questions reinforce 5 8 key points per chapter appearing repeatedly throughout the chapter as well as the supplements In addition the text s internal referencing system establishes a hierarchy of ideas by designating a number for each section and subsection cited consistently in the textbook and supplements including the Test Bank New Eduspace is Houghton Mifflin s online learning tool Powered by Blackboard Eduspace is a customizable powerful and interactive platform that provides instructors with text specific online courses and content in multiple disciplines Features of the Boyes Melvin Economics course include algorithmic homework with hints as well as presentation slides photos illustrations and links to group projects

Essentials of Managerial Finance J. Fred Weston, 1996 Topical coverage designed for the first financial management course Introductory chapters discuss the basic concepts including accounting statements security markets interest rates taxes risk analysis time value of money and the basics of security valuation Subsequent chapters explain how financial managers can help maximize their firms values by improving decisions in such areas as working capital management capital budgeting and choice of capital structure Annotation copyright by Book News Inc Portland OR

Making America: A History of the United States Kelly A. Woestman, 2003

Fundamentals of Financial Management Eugene Brigham, Joel F. Houston, 2003-04 Prepared by Eugene F Brigham and Joel F Houston The Study Guide lists the key learning objectives for each chapter outlines the key sections provides self test questions and provides a set of problems similar to those in the text and the Test Bank but with fully worked out solutions

Contemporary Psychology and Effective Behavior, Sixth Edition/Stu Larsen, 1998-03-21

Microeconomics Michael Parkin, 1997 Maximize your study time and earn higher grades No other microeconomics textbook offers you the benefits of the Parkin programme

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