

**AP® BIOLOGY
2013 SCORING GUIDELINES**

Question 1(continued)

- (c) The experiment described above is repeated with ripe bananas at one end and unripe bananas at the other end. Once again the positions of the flies are observed and recorded every minute for 10 minutes. The positions of flies after 1 minute and after 10 minutes are shown in the table below.

DISTRIBUTION OF FLIES IN CHOICE CHAMBER

Time (minutes)	Position in Chamber		
	End with Ripe Banana	Middle	End with Unripe Banana
1	21	18	21
10	45	3	12

Perform a chi-square test on the data for the 10-minute time point in the banana experiment. **Specify** the null hypothesis that you are testing and **enter** the values from your calculations in the table below. **(2 points maximum)**

PART (c): CHI-SQUARE CALCULATION

Null Hypothesis: (1 point) The flies will be evenly distributed across the three different parts of the choice chamber.			
	Observed (o)	Expected (e)* (1 point)	$(o - e)^2/e$
End with ripe banana	45	20	31.25
Middle	3	20	14.45
End with unripe banana	12	20	3.2
Total	60	60	48.9
*Expected values must be those predicted by the null hypothesis provided in the student response, add up to 60, and include no cells equal to 0.			

- (d) **Explain** whether your hypothesis is supported by the chi-square test and **justify** your explanation. **(1 point maximum)**
- Correct explanation with justification of why the stated null hypothesis is rejected or not rejected. Response must clarify each of the following:
 - degrees of freedom (df) = 2 and p = 0.05 (critical value = 5.99)
 - OR
 - degrees of freedom (df) = 2 and p = 0.01 (critical value = 9.21)
 - how the calculated test statistic compares to the selected critical value
 - whether the null hypothesis should be rejected

2013 Ap Biology Response Scoring Guidelines

Gene Helfman, George H. Burgess



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Developing Assessments for the Next Generation Science Standards National Research Council, Division of Behavioral and Social Sciences and Education, Board on Science Education, Board on Testing and Assessment, Committee on Developing Assessments of Science Proficiency in K-12, 2014-05-29 Assessments understood as tools for tracking what and how well students have learned play a critical role in the classroom Developing Assessments for the Next Generation Science Standards develops an approach to science assessment to meet the vision of science education for the future as it has been elaborated in A Framework for K 12 Science Education Framework and Next Generation Science Standards NGSS These documents are brand new and the changes they call for are barely under way but the new assessments will be needed as soon as states and districts begin the process of implementing the NGSS and changing their approach to science education The new Framework and the NGSS are designed to guide educators in significantly altering the way K 12 science is taught The Framework is aimed at making science education more closely resemble the way scientists actually work and think and making instruction reflect research on learning that demonstrates the importance of building coherent understandings over time It structures science education around three dimensions the practices through which scientists and engineers do their work the key crosscutting concepts that cut across disciplines and the core ideas of the disciplines and argues that they should be interwoven in every aspect of science education building in sophistication as students progress through grades K 12 Developing Assessments for the Next Generation Science Standards recommends strategies for developing assessments that yield valid measures of student proficiency in science as described in the new Framework This report reviews recent and current work in science assessment to determine which aspects of the Framework s vision can be assessed with available techniques and what additional research and development will be needed to support an assessment system that fully meets that vision The report offers a systems approach to science assessment in which a range of assessment strategies are designed to answer different kinds of questions with appropriate degrees of specificity and provide results that complement one another Developing Assessments for the Next Generation Science Standards makes the case that a science assessment system that meets the Framework s vision should consist of assessments designed to support classroom instruction assessments designed to monitor science learning on a broader scale and indicators designed to track opportunity to learn New standards for science education make clear that new modes of assessment designed to measure the integrated learning they promote are essential The recommendations of this report will be key to making sure that the dramatic changes in curriculum and instruction signaled by Framework and the NGSS reduce inequities in science education and raise the level of science education for all students

5 Steps to a 5 AP Environmental Science, 2012-2013 Edition Linda D. Williams, 2011-06-10 A Perfect Plan for the Perfect Score We want you to succeed on your AP exam That s why we ve created this 5 step plan to help you study more effectively use your preparation time wisely and get your best score This easy to

follow guide offers you a complete review of your AP course strategies to give you the edge on test day and plenty of practice with AP style test questions You ll sharpen your subject knowledge strengthen your thinking skills and build your test taking confidence with Full length practice exams modeled on the real test All the terms and concepts you need to know to get your best score Your choice of three customized study schedules so you can pick the one that meets your needs The 5 Step Plan helps you get the most out of your study time Step 1 Set Up Your Study Program Step 2 Determine Your Readiness Step 3 Develop the Strategies Step 4 Review the Knowledge Step 5 Build Your Confidence Topics include Earth Science Concepts Atmosphere Global Water Resources Soil and Soil Dynamics Ecosystem Structure Natural Cycles and Energy Flow Population Agriculture and Aquaculture Forestry Land Use Energy Nuclear Energy Renewable Energies Pollution Global Change

CliffsNotes AP Biology Phillip E. Pack,2013-04-04 Provides a review of key concepts and terms advice on test taking strategies sample questions and two full length practice exams

5 Steps to a 5: 500 AP Biology Questions to Know by Test Day, Third Edition Mina Lebitz,2019-02-21 500 Ways to achieve your highest scoreFrom Evolution Diversity and Unity to Lab Based Questions there is a lot of subject matter to know if you want to succeed on your AP Biology exam That s why we ve selected these 500 AP style questions and answers that cover all topics found on this exam The targeted questions will prepare you for what you ll see on test day help you study more effectively and use your review time wisely to achieve your best score Each question includes a concise easy to follow explanation in the answer key You can use these questions to supplement your overall AP Biology preparation or run them shortly before the test Either way 5 Steps to a 5 500 Biology Questions will get you closer to achieving the score you want on test day

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My Max Score AP Biology Robert Stewart Jr.,2012 Provides advice for taking the AP biology exam discussing test taking strategies a review of the subject matter a study guide and a practice exam with answers

Reconceptualizing STEM Education Richard A. Duschl,Amber S. Bismack,2016-01-08 Reconceptualizing STEM Education explores and maps out research and development ideas and issues around five central practice themes Systems Thinking Model Based Reasoning Quantitative Reasoning Equity Epistemic and Ethical Outcomes and STEM Communication and Outreach These themes are aligned with the comprehensive agenda for the reform of science and

engineering education set out by the 2015 PISA Framework the US Next Generation Science Standards and the US National Research Council's A Framework for K-12 Science Education. The new practice-focused agenda has implications for the redesign of pre-K-12 education for alignment of curriculum, instruction, assessment, STEM teacher education and professional development, postsecondary, further and graduate studies and out-of-school informal education. In each section, experts set out powerful ideas followed by two eminent discussant responses that both respond to and provoke additional ideas from the lead papers. In the associated website, highly distinguished nationally recognized STEM education scholars and policymakers engage in deep conversations and considerations addressing core practices that guide STEM education.

The Handy Biology Answer Book Patricia Barnes-Svarney, Thomas E. Svarney, 2014-07-21. Easy to use and friendly guide explains the inner workings of cells, bacteria, viruses, fungi, plants, animals as well as evolution, the environment, DNA and chromosomes, genetics and genetic engineering, laboratory techniques and much much more. Gene therapy, Forensic DNA profiling, Biochemistry, Biotechnology, Cloning, Stem Cells, Super Bugs, Genetically modified food, Botany, Zoology, Sex. The study of life and living organisms is ancient, broad and ongoing. Biology combines the Greek word for life, *bios*, with the suffix *ology* or *science*. Study knowledge of the new, completely revised and updated The Handy Biology Answer Book examines, explains and traces mankind's understanding of this important topic. From the newsworthy to the practical and from the medical to the historical, this entertaining and informative book brings the complexity of life into focus through the well-researched answers to more than 1,250 common biology questions such as: What is life? Why do you need protein in your diet? Do animals suffer from allergies just like humans? What is the Human Genome Project? Why do birds fly in formation? Can the environment affect genes? Do bacteria get addicted to caffeine? What was the historical significance of hemp? How are seedless grapes grown? What is social Darwinism? Can animals suffer from psychological disorders? The Handy Biology Answer Book has clear, concise answers to questions on everything from genetics to the anatomy of cells to the emotional life of elephants and from the environment and ecology to human biology and evolution. It's a must-have for any student of life. With many photos, illustrations and other graphics, this tome is richly illustrated. Its helpful bibliography and extensive index add to its usefulness.

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of how mankind is reshaping its genetic future based on the viral TED Talk series Will Our Kids Be a Different Species and The Next Species of Human Are you willing to engineer the DNA of your unborn children and grand children to be healthier Better looking More intelligent Why are rates of autism asthma and allergies exploding at an unprecedented pace Why are humans living longer and having far fewer kids Futurist Juan Enriquez and scientist Steve Gullans conduct a sweeping tour of how humans are changing the course of evolution for all species sometimes intentionally sometimes not For example What if life forms are limited only by the bounds of our imagination Are designer babies and pets de extinction even entirely newspecies fair game As humans animals and plants become ever more resistant to disease and aging what will become the leading causes of death Man machine interfaces may allow humans to live much longer What will happen when we transfer parts of our selves into clones into stored cells and machines Though these harbingers of change are deeply unsettling the authors argue we are also in an epoch of tremendous opportunity Future humans perhaps a more diverse resilient gentler and intelligent species may become better caretakers of the planet but only if we make the right choices now Intelligent provocative and optimistic Evolving Ourselves is the ultimate guide to the next phase of life on Earth Chosen by Nature magazine as a Fall 2016 season highlight Hybrid Solutions for the Modelling of Complex Environmental Systems Christian E. Vincenot,Stefano Mazzoleni,Lael Parrott,2017-01-11 Systems studied in environmental science due to their structure and the heterogeneity of the entities composing them often exhibit complex dynamics that can only be captured by hybrid modeling approaches While several concurrent definitions of hybrid modeling can be found in the literature it is defined here broadly as the approach consisting in coupling existing modelling paradigms to achieve a more accurate or efficient representation of systems The need for hybrid models generally arises from the necessity to overcome the limitation of a single modeling technique in terms of structural flexibility capabilities or computational efficiency This book brings together experts in the field of hybrid modelling to demonstrate how this approach can address the challenge of representing the complexity of natural systems Chapters cover applied examples as well as modeling methodology *Quality Control of Mammalian Oocyte Meiotic Maturation: Causes, Molecular Mechanisms and Solutions* Shao-Chen Sun,Xiang-Shun Cui,Heide Schatten,2021-10-20 *Challenges and Solutions of Climate Impact on Agriculture* Shah Fahad,Muhammad Adnan,Iqbal Munir,Rattan Lal,Taufiq Nawaz,Shah Saud,2024-10-08 Challenges and Solutions of Climate Impact on Agriculture explores issues arising from the changing climate for agricultural plants with a soil focused approach Addressing the impacts on a range of important global food crops it looks at issues of water and temperature and their impact on soil quality for production Presented by a global team of experts this book will be important for researchers seeking to understand specific challenges and means of addressing those challenges effectively and efficiently The agriculture sector is arguably one of the most sensitive to changes in the climate Because the climate of a region determines the nature and characteristics of vegetation and crops any change in the mean seasonal temperature and decrease in effective precipitation can reduce

productive periods for crops risking outbreaks of pests and disease and negatively affecting global food security Explains the impact of climate change on soil properties productivity and microbial diversity Provides detailed information regarding the impact of climate change on yields of cereal grains and other crops Enables agricultural scientists to design policies and management strategies for sustainable agriculture

Sustainable Solutions for Food Security Atanu Sarkar, Suman Ranjan Sensarma, Gary W. vanLoon, 2019-01-18 This volume is the first centralized source of technological and policy solutions for sustainable agriculture and food systems resilience in the face of climate change The editors have compiled a comprehensive collection of the latest tested replicable green technologies and approaches for food security including smart crops and new agricultural paradigms sustainable natural resources management and strategies for risk assessment and governance Studies from resource constrained countries with vulnerable populations are emphasized with contributions on multisector partnership from development professionals Debates concerning access to climate smart technologies intellectual property rights and international negotiations on technology transfer are also included The editors are respectively a public health physician a development professional and an environmental scientist They bring their varied perspectives together to curate a holistic volume that will be useful for policy makers scientists community based organizations international organizations and researchers across the world

Global change ecology: threats and solutions Ming-Chih Chiu, Qinghua Cai, Jih-Rong Liao, Kozo Watanabe, Vincent Resh, 2024-10-22 Global Change Ecology promotes the understanding of how globally important changes in the environment disrupt all aspects of ecological systems Especially the environmental changes that are driven by human influences and natural processes e g climate change urbanization biological invasion and pollution resulting in biodiversity loss and eco evolutionary deleterious impacts at the scales of populations communities or ecosystems Alternatively the recognition of ecological responses can enhance their resilience and resistance to environmental disturbances in different ecological systems For example the implications of these environmental threats on biodiversity and ecosystems can boost the interventions of strategies and the development of new techniques The management solutions developed aim to increase environmental sustainability and mitigate the ecological impacts on biota in the Anthropocene By collecting multi disciplinary efforts in the form of primary research articles or perspective reviews we can comprehensively understand how global change influences the biota and consequently construct valuable adaptation strategies This Research Topic will examine the effects of a variety of environmental stresses on different organisms e g plants vertebrates invertebrates microorganisms in a range of biomes e g terrestrial freshwater and marine systems In addition our collection of articles will assemble studies on the ecological and evolutionary responses and influences of organisms populations communities and ecosystems under experimental modeled or observed environmental change These efforts can be devoted to the environmental events and the associated impacts at global and regional scales on a long term or short term bases The scope of our Research Topic includes but is not limited to the following interests Ecological responses

to climate change and extreme weather Land use change and ecological connectivity Sustainable agriculture and biodiversity Urbanization and ecological influences Ecological impacts of contaminants and pollutants Ecological changes to biological invasions Climate change mitigations and the shifting distribution of species Mechanisms of eco evolutionary resilience and resistance Environmental protection and restoration techniques and policies Research and datasets for future assessments and modeling Ecological monitoring through the linkages and networks on long term or large scale bases

Wildlife and Wind Farms - Conflicts and Solutions Martin Perrow, 2017-05-02 Wind farms are an essential component of global renewable energy policy and the action to limit the effects of climate change There is however considerable concern over the impacts of wind farms on wildlife leading to a wide range of research and monitoring studies a growing body of literature and several international conferences on the topic This unique multi volume work provides a comprehensive overview of the interactions between wind farms and wildlife Volume 1 documents the current knowledge of the potential impacts upon wildlife during both construction and operation An introductory chapter on the nature of wind farms and the impact assessment process is followed by a series of in depth chapters documenting effects on climatic conditions vegetation terrestrial invertebrates aquatic invertebrates and fish reptiles and amphibians birds bats and terrestrial mammals A synopsis of the known and potential effects of wind farms upon wildlife in perspective concludes the volume The authors have been carefully selected from across the globe from the large number of academics consultants and practitioners now engaged in wind farm studies for their influential contribution to the science Edited by Martin Perrow and with contributions by 40 leading researchers including Robert Barclay Michael Dillon Jan Olof Helldin Hermann H tker Jeffrey Lovich Manuela de Lucas and Eugene Takle The authors represent a wide range of organisations and institutions including the Universities of Calgary Iowa State Lund Wyoming US Geological Survey Michael Otto Institut im NABU Norwegian Institute for Nature Research Spanish Council for Scientific Research Renewable Energy Systems and several leading consultancies Each chapter includes informative figures tables colour photographs and detailed case studies Many of the latter are produced stand alone from invited additional authors to ensure geographic spread and to showcase exciting new often previously unpublished research This book is designed for practitioners researchers managers and for a range of students in higher education particularly those involved with environmental ecological conservation impact assessment and climate change studies Other volumes Volume 2 Onshore Monitoring and Mitigation 978 1 78427 123 7 Volume 3 Offshore Potential Effects 978 1 78427 127 5 Volume 4 Offshore Monitoring and Mitigation 978 1 78427 131 2

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