

A4.2 Conservation of Biodiversity

HL



Guiding questions

- What factors are causing the sixth mass extinction of species?
- How can conservationists minimize the loss of biodiversity?

A4.2.1—Biodiversity as the variety of life in all its forms, levels and combinations

Biodiversity is an abbreviation for biological diversity and includes:

- _____ diversity—the variety of the combination of species living together in communities
- _____ diversity—the many species on the evolutionary tree of life
- _____ diversity within species—there is variation in the gene pool of each species

Biodiversity can be measured by:

1. _____—the number of species present
2. _____—having a similar abundance of each species present

A4.2.2—Comparisons between current number of species on Earth and past levels of biodiversity

Millions of species have been discovered, named and described but there are _____ species to be discovered. Evidence from fossils suggests that there are currently _____ species alive on Earth today than at any time in the past. There have been _____ mass extinctions when many species disappeared:

- The most recent was 66 million years ago when a huge _____ collided with the earth causing many species to die out, including all non-avian dinosaurs.
- The previous four mass extinctions have been attributed to _____ and major changes to the atmosphere and _____.

Between mass extinctions, biodiversity tends to _____ gradually as new species evolve. Because there have been no mass extinction events for 66 million years, biodiversity has been able to increase dramatically. However, _____ is causing what is predicted to be the _____ mass extinction, so this peak of biodiversity is unlikely to be sustained.

A4.2.3—Causes of anthropogenic species extinction

Causes of _____ species extinction (which means due to human activities):

1. _____—humans take plants and animals from natural ecosystems by hunting animals and harvesting plants. If species are taken at a _____ than they can reproduce, extinction will occur.
2. ~~Habitat destruction~~—natural habitats such as forests or grasslands were destroyed for agriculture and towns.
3. ~~Exotic species~~—when alien species are introduced to ecosystems either on purpose or by accident, they can drive native species to extinction by predation, spreading of pests or diseases, or competition for resources.
4. _____—examples include plastic waste washing up on beaches and burning of fossil fuels.
5. _____—if environmental conditions change slowly, plants and animals can adapt to new conditions. However, human activities are causing very _____ changes in temperature, rainfall, and snow cover, and some species will be unable to adapt and will face extinction.

Determine the causes of extinction of the following species:

North Island giant moose (<i>Peromyscus novaezealandiae</i>)		
Caribbean monk seals (<i>Monachus tropicalis</i>)		
Mount Glorious banded frog (<i>Rhombophryne dumalis</i>)		

Section 17 Review Biodiversity Answers

Jiyuan Zhang



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biotechnology plant breeding genetic resources intellectual property law and agricultural economics BOOK JACKET

Entrepreneurship and Development for a Green Resilient Economy Adriana Grigorescu, Jean Vasile Andrei, 2024-07-04 This collection covers extensive ground in contemporary green entrepreneurship from fundamental theories such as business investments and venturing capital to emerging and new concepts that reflect critical challenges including technological development slowdowns economic resilience digitalization green business footprints **Project Performance Report 2001**, Capitalism and Environmental Collapse Luiz Marques, 2020-08-17 This book intends to be an alert to the fact that the curve measuring environmental costs against the economic benefits of capitalism has irreversibly entered into a negative phase The prospect of an environmental collapse has been evidenced by the sciences and the humanities since the 1960s Today it imposes its urgency This collapse differs from past civilizations in that it is neither local nor just civilizational It is global and occurs at the broadest level of the biosphere accelerated by the convergence of different socio environmental crises such as Earth energy imbalance climate change and global warming Sea level rise Decrease and degradation of forests Collapse of terrestrial and aquatic biodiversity Floods droughts wildfires and extreme weather events Degradation of soils and water resources Increase in pollution caused by fossil fuels and coal Increase in waste production and industrial intoxication The book is divided in two parts In the first part it presents a comprehensive review of scientific data to show the already visible effects of each of the different environmental crises and its consequences to human life on Earth In the second part Luiz Marques critically discusses what he calls the three concentric illusions that prevent us from realizing the gravity of the current socio environmental crises the illusion of a sustainable capitalism the illusion that economic growth is still capable of providing more well being and the anthropocentric illusion Finally Marques argues that fitting back into the biosphere will only be possible if we dismantle the expansive socioeconomic gear that has shaped our societies since the 16th century by moving from a Social Contract to a Natural Contract which takes into account the whole biosphere According to him the future society will be post capitalist or it will not be a complex society and even perhaps we must fear no society at all This book is backed up with the latest and best science and has made the complexities understandable for the average reader all in a context of hope for the future William J Ripple PhD Distinguished Professor of Ecology Director of the Alliance of World Scientists Oregon State University International Judicial Practice on the Environment Christina Voigt, 2019-04-18 Evaluates the fundamental legitimacy of judicial practice in the growing number of environmental cases heard before international courts *Dictionary of Ecological Economics* Brent M. Haddad, Barry D. Solomon, 2023-02-14 This comprehensive Dictionary brings together an extensive range of definitive terms in ecological economics Assembling contributions from distinguished scholars it provides an intellectual map to this evolving subject ranging from the practical to the philosophical **Strategic Landscape Monitoring for the Nordic Countries** Geoff Groom, Tim Reed, 2001 *Reforming Law and Economy for a Sustainable Earth* Paul Anderson, 2014-09-19 Few concerns

preoccupy contemporary progressive thought as much as the issue of how to achieve a sustainable human society The problems impeding this goal include those of how to arrest induced global environmental change GEC persistent disagreements about the contribution of economic activities to GEC and further differences in views on how these activities can be reformed in order to reduce the rate of change and thus to mitigate threats to much life on Earth Reforming Law and Economy for a Sustainable Earth aims to help resolve these problems in two ways Since addressing GEC will require global coordination the book first clarifies the conditions necessary to achieve this effectively Paul Anderson explores these conditions with the aid of a sustained analysis of key concepts in influential disciplines particularly in social and political theory and law relating to the transition to a sustainable economy Second Anderson tackles the problem of how to arrest GEC by incisively evaluating two leading theoretical positions in terms of their capacity to support the conditions required for effective global coordination From this basis the book offers an extensive critique of the idea that global environmental problems can be solved within the framework of global capitalism It also critically reviews and advances the proposition that global sustainability can be achieved only by changing the capitalist form of organizing the economy Enriched by a genuinely interdisciplinary approach the originality of Reforming Law and Economy for a Sustainable Earth lies in the manner it combines a rigorous analysis of the requirements for global sustainability with decisive conclusions as to what are and what are not viable means of fulfilling those requirements The book advances research on sustainability within key disciplines among them political theory law and social science by offering a timely and insightful statement about the global environmental predicament in the 21st century

Routledge Handbook of Urban Forestry Francesco Ferrini,Cecil C. Konijnendijk van den Bosch,Alessio Fini,2017-03-31 More than half the world s population now lives in cities Creating sustainable healthy and aesthetic urban environments is therefore a major policy goal and research agenda This comprehensive handbook provides a global overview of the state of the art and science of urban forestry It describes the multiple roles and benefits of urban green areas in general and the specific role of trees including for issues such as air quality human well being and stormwater management It reviews the various stresses experienced by trees in cities and tolerance mechanisms as well as cultural techniques for either pre conditioning or alleviating stress after planting It sets out sound planning design species selection establishment and management of urban trees It shows that close interactions with the local urban communities who benefit from trees are key to success By drawing upon international state of art knowledge on arboriculture and urban forestry the book provides a definitive overview of the field and is an essential reference text for students researchers and practitioners

Ecology in Action Fred Singer,2016-03-10 Integrates process and content of core areas of ecology using an engaging narrative fascinating case studies and stunning images throughout

Soil, Agriculture, and Ecosystem Modeling Owais Bashir,Khalid Rehman Hakeem,Surinder S. Kukal,Razeef Mohd,2024-10-18 Soil and ecosystem modeling is crucial for managing and comprehending ecological processes and should be required for all

studies focusing on agriculture systems environmental management environmental sciences and ecology Offering an array of modeling strategies that include applications of machine learning deep learning and other AI methods the book explores and demonstrates soil agriculture and ecosystem modeling for fostering smart sustainable agricultural practices The volume takes into account the mechanisms of climate change as well as the challenges and hazards related to soil health providing insight into long term and sophisticated sustainable agriculture crop protection and management soil carbon sequestration and ecology preservation

Foreign Operations, Export Financing, and Related Programs Appropriations for 1995: Secretary of State United States. Congress. House. Committee on Appropriations. Subcommittee on Foreign Operations, Export Financing, and Related Programs, 1994

Environmental Education in China Gerald A. McBeath, Jenifer Huang McBeath, Tian Qing, Huang Yu, 2014-12-31 China's environmental problems increasingly attract global attention yet critics often overlook the sizable efforts of the Chinese people and government to change attitudes and behavior in order to improve environmental outcomes This much needed book

Bulletin, 1992

Section 17 Review Biodiversity Answers Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Section 17 Review Biodiversity Answers**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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