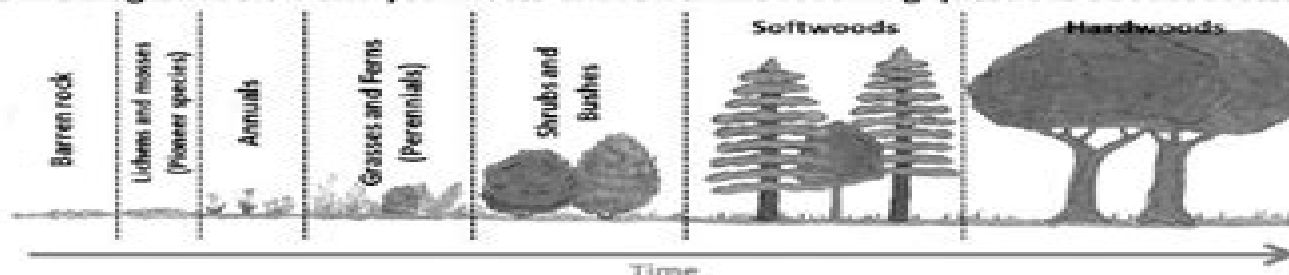


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Homework: Ecological Succession

Use the diagram below and your notes to answer the following questions about succession.



1. Biomass is the amount of living material present in an environment. Biodiversity refers to the variety of living things that are present in an ecosystem. Which of the following would you expect to occur over time as ecological succession moves forward?

- A increases in both biomass and biodiversity
- B decreases in both biomass and biodiversity
- C increases in biomass, but decreases in biodiversity
- D decreases in biomass, but decreases in biodiversity

2. Which of the following animal niches will be filled first as an ecosystem begins the stages of ecological succession?

- A carnivore
- B scavenger
- C herbivore
- D apex predator

3. New ground begins as barren rock. This rock is covered in lichens and mosses, and eventually soil forms. Which two processes are most responsible for forming this soil at the beginning of ecological succession?

- A Subduction and Deformation
- B Transpiration and Precipitation
- C Weathering and Decomposition
- D Crystallization and Condensation

4. The diagram above shows how one community of organisms replaces another until which of the following is reached?

- A pioneer community
- B marine biome
- C ecological pyramid
- D climax community

5. Lava from a volcano cools and becomes new, barren land. If this land is completely barren, then it would contain –

- A only abiotic factors
- B only biotic factors
- C both abiotic and biotic factors
- D neither abiotic or biotic factors

6. The diversity of animals increases alongside plants because larger plant communities provide

- A defense from attack by parasites
- B more sunlight to warm the ecosystem
- C more chemical energy in the food chain
- D fewer places for prey animals to hide

How Do Ecosystems Develop Over Time Answer Key

RS Peters



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REFAPRO 2001 ,2002 Freshwater Ecosystems Committee on Inland Aquatic Ecosystems, Commission on Geosciences, Environment and Resources, Division on Earth and Life Studies, National Research Council, 1996-10-11 To fulfill its commitment to clean water the United States depends on limnology a multidisciplinary science that seeks to understand the behavior of freshwater bodies by integrating aspects of all basic sciences from chemistry and fluid mechanics to botany ichthyology and microbiology Now prominent limnologists are concerned about this important field citing the lack of adequate educational programs and other issues Freshwater Ecosystems responds with recommendations for strengthening the field and ensuring the readiness of the next generation of practitioners Highlighted with case studies this book explores limnology's place in the university structure and the need for curriculum reform with concrete suggestions for curricula and field research at the undergraduate graduate and postdoctoral levels The volume examines the wide ranging career opportunities for limnologists and recommends strategies for integrating limnology more fully into water resource decision management Freshwater Ecosystems tells the story of limnology and its most prominent practitioners and examines the current strengths and weaknesses of the field The committee discusses how limnology can contribute to appropriate policies for industrial waste wetlands destruction the release of greenhouse gases extensive damming of rivers the zebra mussel and other invasions of species the broad spectrum of problems that threaten the nation's freshwater supply Freshwater Ecosystems provides the foundation for improving a field whose importance will continue to increase as human populations grow and place even greater demands on freshwater resources This volume will be of value to administrators of university and government science programs faculty and students in aquatic science aquatic resource managers and clean water advocates and it is readily accessible to the concerned individual Entrepreneurial Ecosystems in Cities and Regions Robert Huggins, Fumi Kitagawa, Daniel Prokop, Christina Theodoraki, Piers Thompson, 2024 Entrepreneurial Ecosystems in Cities and Regions assembles original contributions from scholars across the world to provide an in depth analysis of a concept that has the capability to capture a dynamic global economy with entrepreneurial innovation at the crux of its future development **Indian Forest Service Exam Zoology Previous year Paper 2019 to 2023 With Answer by Expert Faculty** ,2024-07-14 UPSC Indian Forest Service Exam Zoology Previous year Paper 2019 to 2023 With Answer by Expert Faculty **Handbook on Digital Platforms and Business Ecosystems in Manufacturing** Sabine Baumann, 2024-03-14 This timely Handbook examines the rapidly expanding research area of digital platforms and business ecosystems in the context of manufacturing industries Chapters analyze core topics such as business model transformation ecosystem design and governance offering an up to date overview of crucial research **Global Change and Terrestrial Ecosystems in Monsoon Asia** T. Hirose, B.H. Walker, 2012-12-06 Forest vegetation is distributed in monsoon Asia continuously from boreal forests through temperate to tropical rain forests This vegetation the richest in the world is being subjected to global change

on an unprecedented scale It has been predicted that boreal forests will experience the most significant change in response to global warming while tropical forests are endangered by rapid changes in land use due to high population pressure An increase in atmospheric CO₂ concentration will severely affect ecosystem function in this area This volume presents a review of terrestrial ecosystems in monsoon Asia and assesses possible effects of global change on the structure and function of forest ecosystems and feedback routes to the global carbon cycle Audience Vital reading for plant ecologists vegetation scientists environmental managers and government decision makers

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for instructors and students in forest management wildlife ecology and landscape ecology and for forest managers planners and policy developers in North America **1,000 Questions and Answers** ,1997 Questions and answers **Agricultural Research Service Program Plan** United States. Agricultural Research Service,1991 *International Encyclopedia of Business Management* ,2025-09-01 The Encyclopedia of Business Management Four Volume Set is a comprehensive resource that covers over 200 topics across various areas of business management Each entry is written in an accessible manner making complex concepts easy to understand The encyclopedia addresses interdisciplinary subjects such as cultural entrepreneurship tourism innovation and marketing promotions By emphasizing definitions and practical applications the entries help readers grasp the relevance of each topic Expert editors lead each section ensuring that the contributions are authoritative and well rounded The encyclopedia is divided into seven broad themes including business entrepreneurship human resource management innovation management international business organizational behavior project management supply chain management and sport and tourism management Each section s articles begin with a technical analysis of key definitional issues followed by an exploration of the topic s broader context This structured approach provides a holistic examination of the subjects allowing readers to gain a comprehensive understanding of vital business management concepts Provides a comprehensive overview of the main business management topics Focuses specifically on business management from a range of perspectives Includes new and emerging business management topics Presents an interdisciplinary focus in terms of business management practices Features templates across all chapters for ease of navigation and use *Restored to Earth* Gretel Van Wieren,2013-07-09 Ecological restoration integrates the science and art of repairing ecosystems damaged by human activities Despite relatively little attention from environmental ethicists restoration projects continue to gain significance drawing on citizen volunteers and large amounts of public funds providing an important model of responding to ecological crisis Projects range from the massive multi billion dollar Kissimmee River project restoring 25 000 acres of Everglades wetlands to the 30 million effort to restore selected wetlands in industrial Brownfield sites in Chicago s south side Lake Calumet area to the reintroduction of tall grass prairie ecosystems in various communities in the Midwest Restored to Earth provides the first comprehensive examination of the religious and ethical dimensions and significance of contemporary restoration practice an ethical framework that advances the field of environmental ethics in a more positive action oriented experience based direction Van Wieren brings together insights and examples from restoration ecology environmental ethics religious studies and conservation and Christian thought as well as her own personal experiences in ecological restoration to propose a new restoration ethic grounded in the concrete hands on experience of humans working as partners with the land **Ecology - Volume I** Antonio Bodini ,Stefan Klotz,2009-10-20 Ecology is a component of Encyclopedia of Environmental and Ecological Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Ecology is the study of the

interrelationships between living organisms and their environment The term ecology was introduced by Ernst Haeckel at the end of the nineteenth century Since that time spectacular advances have been made Much has been learned about the relationship between organisms and environmental factors and about the processes that regulate the abundance and distribution of species The Theme on Ecology with contributions from distinguished experts in the field discusses the Science of Ecology for a Sustainable World The two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

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