

**AP ENVIRONMENTAL SCIENCE
STUDY GUIDE – CHAPTER 8: Aquatic Biodiversity**

Key Questions and Concepts

1. What is the general nature of aquatic systems? (8-1)
2. Why are marine aquatic systems important? (8-2)
3. How have human activities affected marine ecosystems? (8-3)
4. Why are freshwater ecosystems important? (8-4)
5. How have human activities affected freshwater ecosystems? (8-5)

Review Questions

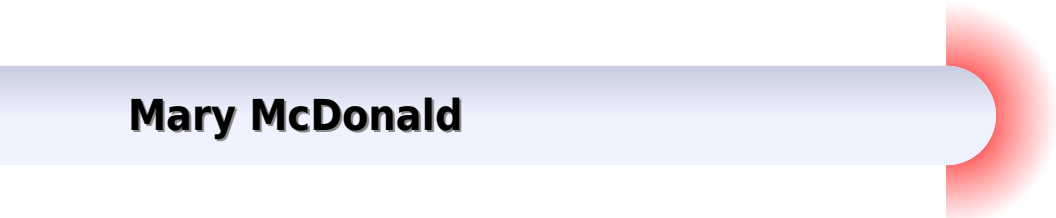
1. Review the Key Questions and Concepts for this chapter on page 163. What is a coral reef and why should we care about coral reefs? What is coral bleaching?
2. What percentage of the earth's surface is covered with water? What is an aquatic life zone? Distinguish between a saltwater (marine) life zone and a freshwater life zone and give two examples of each. What major types of organisms live in the top, middle, and bottom layers of aquatic life zones? Define plankton and describe three types of plankton. Distinguish among nekton, benthos, and decomposers and give an example of each. List five factors that determine the types and numbers of organisms found in the three layers of aquatic life zones? What is turbidity, and how does it occur? Describe one of its harmful impacts.
3. What major ecological and economic services are provided by marine systems? What are the three major life zones in an ocean? Distinguish between the coastal zone and the open sea. Distinguish between an estuary and a coastal wetland and explain why each have high net primary productivity. Describe some of the interactions among species in a coastal marsh ecosystem. Explain the importance of sea grass beds. What is a mangrove forest and what is its ecological and economic importance? What is the intertidal zone? Distinguish between rocky and sandy shores and describe some of the organisms often found on each type of shoreline.
4. Explain the importance of coral reefs and some of the interactions among the species in such systems. Describe the three major zones in the open sea. What human activities pose major threats to marine systems and to coral reefs?
5. Explain why the Chesapeake Bay is an estuary in trouble. What is being done about some of its problems?
6. What major ecological and economic services do fresh-water systems provide? What is a lake? What four zones are found in deep lakes? Distinguish among oligotrophic and eutrophic, and mesotrophic lakes. What is cultural eutrophication?
7. Define surface water, runoff, and watershed (drainage basin). Describe the three zones that a stream passes through as it flows from mountains in the sea. Describe the relationships between dams, deltas, wetlands, hurricanes, and flooding in New Orleans, Louisiana.
8. Give three examples of inland wetlands and explain the ecological and economic importance of such wetlands.
9. What are four ways in which human activities are disrupting and degrading freshwater systems? Describe inland wetlands in the United States in terms of the area of wetlands lost and the resulting loss of ecological and economic services.
10. What are this chapter's *three big ideas*? What is the relationship between coral reefs and the three principles of sustainability?

Critical Thinking

1. What are the three steps governments and industries could take to protect the remaining coral reefs from harmful activities? What are three ways in which individuals can help to protect those reefs?
2. Suppose you are a defense attorney arguing in court for protecting a coral reef from harmful human activities. Give you three most important arguments for the defense of the ecosystem.
3. Why do aquatic plants such as phytoplankton tend to be larger and have more specialized structures such as stems and leaves for growth?
4. Why are some aquatic animals, especially marine mammals such as whales, extremely large compared with terrestrial animals?
5. How would you responds to someone who proposes that we use the deep portions of the world's oceans to deposit or radioactive and other hazardous wastes because the deep oceans are vast and are located far away from human habitats? Give reasons for your response.
6. Suppose a developer builds a housing complex overlooking a coastal salt marsh and the result is pollution and degradation of the marsh. Describe the effects of such a development on the wildlife of the marsh, assuming at least one species is eliminated as a result.
7. How does a levee built on a river affect species such as deer and hawks living in a forest overlooking the river?
8. Suppose you have a friend who owns property that includes a freshwater wetland and the friend tells you he is planning to fill the wetland to make room for his lawn and garden. What would you say this friend?
9. Congratulations! You are in charge of the world. What are the three most important features of your plan to help sustain the earth's aquatic biodiversity?

Answers For Study Guide For Apes

Mary McDonald



Answers For Study Guide For Apes:

This book delves into Answers For Study Guide For Apes. Answers For Study Guide For Apes is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Answers For Study Guide For Apes, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Answers For Study Guide For Apes
 - Chapter 2: Essential Elements of Answers For Study Guide For Apes
 - Chapter 3: Answers For Study Guide For Apes in Everyday Life
 - Chapter 4: Answers For Study Guide For Apes in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Answers For Study Guide For Apes. The first chapter will explore what Answers For Study Guide For Apes is, why Answers For Study Guide For Apes is vital, and how to effectively learn about Answers For Study Guide For Apes.
3. In chapter 2, this book will delve into the foundational concepts of Answers For Study Guide For Apes. This chapter will elucidate the essential principles that need to be understood to grasp Answers For Study Guide For Apes in its entirety.
4. In chapter 3, this book will examine the practical applications of Answers For Study Guide For Apes in daily life. This chapter will showcase real-world examples of how Answers For Study Guide For Apes can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Answers For Study Guide For Apes in specific contexts. This chapter will explore how Answers For Study Guide For Apes is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Answers For Study Guide For Apes. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Answers For Study Guide For Apes.

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Answers For Study Guide For Apes Introduction

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