#### APES Ch. 1, 2, and Supplement 5 Study Guide

Objectives: You do not need to answer any of the bullets under "Objectives." These are goals to keep in mind as we cover these chapters. At the end of this section, you should be able to:

- Describe the term sustainability as it applies to natural capital and sustainable societies
- Compare and contrast developing countries and developed countries with regards to population growth, wealth, resource use and pollution
- Determine the doubling time of any population given the rate of population growth
- Define the Tragedy of the Commons
- Cite the benefits of pollution prevention vs. pollution clean-up
- · Identify the root causes of environmental problems
- Identify the principles of sustainability
- Calculate the ecological footprint of a country
- Describe the basic process of the scientific method; formulate and test a hypothesis
- Identify the main components of a system including inputs, throughputs and outputs and the role of feedback looms
- Describe synergistic interactions.
- Describe the types and structures of matter including atoms and ions, qualities of matter, states of matter and changes in matter
- Apply the Law of Conservation of Matter to the outputs of systems
- Compare and contrast the process of fission and fusion and apply the concept of half-life to radioactive decay

#### Textbook References:

Miller, Living in the Environment, 15th edition: Chapters 1, 2, and supplement 5 (starting on pg. S16- back of book)

#### Important Vocabulary: Write a brief definition for each word.

Exponential vs. Linear Growth     Ecology     Natural Capital     Doubling Time     Agricultural revolution	per capita GNP/GDP     Affluenza     Industrial revolution     Biodiversity     Frontier worldview	Four principles of Sustainability     John Muir     CCC     Earth Day     Synergy
Sierra Club     Easter Island Case Study     Rule of 70     Developed vs. Developing Countries	Ecological footprint     Pollution prevention vs. pollution clean-up Prokaryote vs. eukaryote	Law of conservation of matter     Persistence

#### Discussion Questions. Must answer each in complete sentences.

- Discuss the difference between point and nonpoint sources of pollution. Provide examples of point and nonpoint sources of air, water and noise pollution.
- Describe the "Tragedy of the Commons". Give one example.
- Describe three contrasting characteristics of a developed and developing country.
- Contrast perpetual, renewable, and nonrenewable resources. Give an example of each.
- Give two examples of how poverty and human population growth have a negative effect on the environment.
- Contrast control, independent variable, and dependent variable.
- Contrast positive and negative feedback loops and give an example of each.
- 8. Contrast fission vs. fusion.
- Contrast high quality matter and low quality matter. Give an example of each.

#### Math Problems: Show all work and circle your answers.

- If the earth's population is approximately 7 billion currently, how long will it take to double in size if the population growth maintains at 2%?
- If the GDP of the U.S. is \$15,000,000,000,000,000, and the population is about 300,000,000, what is the GDP per capita?
- If the U.S. population is about 300,000,000, and each person has an ecological footprint of about 10 hectares, what is the total ecological footprint for the U.S. in hectares?
- 4. If I bectare = 0.01 km2, what is the area of the ecological footprint of the U.S. in km2?
- 5. If Asia's birth rate is 19 per 1,000 people and its death rate is 7 per 1,000 people, what is its growth rate in percent?

# **Apes Spring Final Study Guide**

**Ian Pickup** 

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### **Table of Contents Apes Spring Final Study Guide**

- 1. Understanding the eBook Apes Spring Final Study Guide
  - The Rise of Digital Reading Apes Spring Final Study Guide
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Apes Spring Final Study Guide
  - Exploring Different Genres
  - $\circ\,$  Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Apes Spring Final Study Guide
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Apes Spring Final Study Guide
  - Personalized Recommendations

- Apes Spring Final Study Guide User Reviews and Ratings
- Apes Spring Final Study Guide and Bestseller Lists
- 5. Accessing Apes Spring Final Study Guide Free and Paid eBooks
  - Apes Spring Final Study Guide Public Domain eBooks
  - Apes Spring Final Study Guide eBook Subscription Services
  - Apes Spring Final Study Guide Budget-Friendly Options
- 6. Navigating Apes Spring Final Study Guide eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Apes Spring Final Study Guide Compatibility with Devices
  - Apes Spring Final Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Apes Spring Final Study Guide
  - Highlighting and Note-Taking Apes Spring Final Study Guide
  - Interactive Elements Apes Spring Final Study Guide
- 8. Staying Engaged with Apes Spring Final Study Guide
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Apes Spring Final Study Guide
- 9. Balancing eBooks and Physical Books Apes Spring Final Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Apes Spring Final Study Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Apes Spring Final Study Guide
  - Setting Reading Goals Apes Spring Final Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Apes Spring Final Study Guide
  - Fact-Checking eBook Content of Apes Spring Final Study Guide

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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