Chapter 17 - Sustaining Biodiversity: The Ecosystem Approach

Read Chapter 17 and answer the following:

1. List the advantages and disadvantages of providing government subsidies to ranchers holding permits to graze livestock on public lands in the United States.
   1. Describe major positions on the use of public rangelands.
   2. List four ways suggested by some ranchers, environmentalists, and federal range managers for using public rangeland more sustainably.
   3. Describe how Jack Turnell has managed rangeland he uses.
2. Explain why you agree or disagree with each of the proposals for providing more sustainable use of public rangeland in the United States. (Listed on page 417-418)
3. Describe two major ways to reduce biodiversity loss and the strategies and tactics used for each method.
4. Describe each of the following…..
   1. Efforts by Costa Rica to establish reserves to protect its biodiversity.
   2. The role of the Nature Conservancy in establishing nature reserves in the United States and other parts of the world.
   3. Efforts to restore a degraded tropical dry forest in Costa Rica.
   4. What is *biocultural restoration*?
5. Explain why we should care about preserving tropical forests and using them sustainable.
   1. Describe the many uses of the tropical *neem tree*.
   2. List the advantages and disadvantages of widespread planting of neem trees.
6. Evaluate the reintroduction of the gray wolf as a keystone predator species in the Yellowstone ecosystem.
7. What is wilderness?
   1. Why is it important?
   2. List advantages and disadvantages of protecting more wilderness.
   3. List three proposed categories for wilderness areas.
   4. Are you in favor of establishing more wilderness areas in the United States, especially in the lower 48 states? EXPLAIN.
      1. What might be some drawbacks?
8. An ecologist recommends a controlled burn of vegetation in a heavily forested nearby state park to help reduce the chance of serious damage from a major forest fire. Many local citizens oppose the burn. If you were an elected official, would you support the proposed controlled burn? If you approved the burn, what restrictions would you impose for ecological and human health reasons?
9. Explain why you agree or disagree with each of the proposals listed in Figure 17-23 (page 43) concerning the U.S. national park system.
10. Explain why you agree or disagree with each of the proposals for providing more sustainable use of forests throughout the world. (Listed in figure 17-17, page 425)