**Extinction & Biodiversity Loss** (p. 207 – 211)

**I. Biodiversity At Risk**

**1. Historically, human colonization of islands & continents has enhanced biodiversity.**

Circle One : True False

**2. What is the difference between extinction and extirpation?**

Extinction : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Extirpation : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3. Define the term background rate of extinction.**

Background Rate Of Extinction –

**4. Before humans, how often would mammal species naturally become extinct?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**5. How many known mass extinctions have occurred on Earth?** \_\_\_\_\_\_\_\_\_

**6. According to scientists, we are currently experiencing a 6th mass extinction.**

Circle One : True False

**7. How much greater is the current extinction rate compared to usual background rate?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**8. What is an endangered species and threatened species & give an example of each type.**

Endangered Species : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*Example* : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Threatened Species : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*Example* : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**9. How many species in the United States were endangered or threatened in 2009?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Species

**10. What is the Living Planet Index?**

**II. Causes Of Biodiversity Loss**

**1. List the four causes of species extinction and population decline.**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2. Define the term habitat fragmentation.**

Habitat Fragmentation –

**3. Give an example of how habitat fragmentation can occur.**

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**4. The smaller the habitat island, the faster the biodiversity loss.**

Circle One : True False

**5. What percentage of United States prairie grassland has been destroyed?**

\_\_\_\_\_\_\_\_\_\_%

**6. How do invasive species, such as zebra mussels, cause biodiversity loss?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**7. List three sources of pollution that lead to biodiversity loss.**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**8. Overharvesting and overhunting by humans is a common cause of extinction.**

Circle One : True False

**9. Give an example of a species that is vulnerable to extinction due to overhunting.**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**10. Define the term poaching.**

Poaching –

**11. What percent of species extinction would a 2.0 ˚C global temperature increase cause?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_%