**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?**

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