**Kent Diether B. Geraldo BSIT – 2B**

**GEELECT1 People and the Earth’s Ecosystem**

**Module 3**

**Lesson 5: Changing Species Composition**

**Activity:**

Dogs – 8

Chickens – 1

Duck - 1

Flower - 15

4 ÷ 3 = 1.3

**Analysis:**

**Is my residential area rich in terms of biodiversity?**

​ Based on the biodiversity index of 1.3, I can see that my residential area does not have a high level of biodiversity.​ This indicates that there are only a few different species present, with some species having many individuals while others are very few. I would expect a richer biodiversity if there was a better mix of different species.

**What is the implication of this information?**

Having low biodiversity in my area can make it less stable and more vulnerable to issues like diseases or invasive species. It also suggests that I might not be getting as many benefits from nature, such as clean air, pollination, and healthy soil. I believe that encouraging more plant and animal life could help improve the overall health of my environment.

**Application:**

1. **Fishing –** Implement sustainable fishing practices to avoid overfishing and protect marine ecosystems.

2. **Water Usage –** Promote water conservation techniques among residents to reduce strain on local water resources and sustain aquatic habitats.

3. **Industrial Work –** Ensure proper waste disposal practices are in place to prevent pollutants from entering water bodies and harming aquatic life.

**Assessment:**

1. Hunting

2. Overfishing

3. Kaingin

4. Improper Waste Disposal

5. Illegal Logging

**1. Why strict implementation of laws is considered to stop deforestation?**

Strict implementation of laws helps prevent illegal logging, land encroachment, and unauthorized agricultural practices. It ensures accountability and provides a framework for monitoring and penalizing those who harm forests, deterring others from engaging in similar activities.

**2. Why education is considered in addressing the impact of biodiversity loss?**

Education raises awareness about the importance of biodiversity and its role in ecosystem stability. It empowers individuals and communities to adopt sustainable practices, make informed decisions, and advocate for conservation initiatives, ultimately reducing the impact of biodiversity loss.

**3. How does the pandemic covid-19 helped in mitigating with the biodiversity loss?**

During the COVID-19 pandemic, reduced human activity (such as industrial operations, deforestation, and tourism) temporarily allowed ecosystems to recover. Wildlife habitats faced fewer disturbances, and air and water quality improved in several regions, contributing positively to biodiversity conservation.