**Section 4 – Human Activity Affects**

**Biological Diversity**

**p. 57-78**

**4.1 Reduction of Biological diversity (p.57-65)** *(learner outcome: 1. Describe the relative abundance of species on earth and in different environments. 2. Describe the effects of extinction and extirpation on biological diversity.)*

1. What does extinction mean? Give an example of an extinction caused by man and an extinction caused by nature.

2. What does extirpation mean? How does the extirpation of an organism affect other organisms? Give an example.

3. What is overspecialization? Give an example.

4. **Three main causes of extinction and extirpation by humans are shown below** *(explain what each of them are, provide examples)*

**Habitat Destruction**

**Intro of Non-Native Species**

**Over-Hunting**

**4.2 Selecting Desirable Traits (p.66-71)** *(learner outcome: 3.Distinguish between artificial and natural selection.)*

5. What is artificial selection? Give an example.

6. Three examples of Biotechnology are shown below. Explain and provide examples for each.

**Clones**

**Artificial Reproductive Technology**

**Genetic Engineering**

7. What are the impacts of biotechnology on society?

**4.3 Reducing Our Impact on Biological Diversity (p.72-78)** *(learner outcome: 4. Evaluate the success and limitations of various local and global strategies for minimizing loss of species diversity.)*

8. Strategies to conserve Biological Diversity. (Explain and provide examples for each).

**Protected Areas**

**Conservation of Genetic Resources**

**Resource Use Policies**

**Restoration of Ecosystems and Species**