**Year 12 Biology**

**Task 8**

**Environmental Investigation**

**Macroinvertebrate Wetland Reservoir**

**Weighting 10%**

**Term 3 Week 8**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Biodiversity is important in maintaining a healthy planet. In countries all over the world, areas of land and water are set aside as National Parks or Reserves to protect wildlife of that region. Often the species in an area are unique and may be at risk or an endangered species.

Western Australia has many unique organisms. In this task, you have to present a case study report about a wetland reserve area in Western Australia. In your case study report, you are to address the following areas of your reserve:

* Identify the reasons why the park/reserve was created.
* Describe the physical environmental (abiotic factors). Describe the biotic (living) part of the ecosystem within your nominated area.
* Illustrate the feeding relationships within your ecosystem.
* Discuss the possible human impacts of the area and how they affect the living environment.
* Discuss the non-human impacts of the area and how they affect the living environment.
* Moving forward some management regimes individuals and government organisations can use to benefit the area.

In your case study report, please include an introduction, subheadings and a conclusion. You may also include photographs from internet sources to illustrate your descriptions and observations, but remember to credit the photographer/site it is sourced from. All referencing is to be completed in Harvard format.

|  |  |  |
| --- | --- | --- |
| **Part A (20 marks)** | **Part B (30 marks)** | **Total (50 Marks)** |
|  |  |  |

**PART A (20 Marks)**

Please complete the table below, using your research skills to investigate various wetland areas in Western Australia and biodiversity present there. (**8 Marks)**

|  |  |
| --- | --- |
| Reserve Area Name | Environmental factors and species present |
| 1) |  |
| 2) |  |
| 3) |  |
| 4) |  |
| 5) |  |
| 6) |  |
| 7) |  |
| 8) |  |

Use the information from the Nearer to Nature incursion and complete the table below. You may use additional research as well to complete any missing information. **(12 Marks)**

|  |  |
| --- | --- |
| Reserve of Choice |  |
| Where it is located |  |
| How long has it been |  |
| Why was it created |  |
| Species present |  |
| Risk/Endangered |  |
| Abiotic factors |  |
| Biotic factors |  |
| Feeding relationships |  |
| Human impacts |  |
| Non-human impacts |  |
| Individual/government support |  |