



AMREF INTERNATIONAL TRAINING CENTRE

- Qualification Code :**
Qualification : Environmental Science Level 6
Unit Code : ENV/CU/SCI/CR/03/6/A
Unit of Competency : Plant and Animal Taxonomy

WRITTEN ASSESSMENT

Time: 3 Hours

INSTRUCTIONS TO CANDIDATE

1. This paper has two sections A and B
2. You are provided with a separate answer booklet
3. Marks for each question are as indicated
4. Do not write on the question paper

This paper consists of five (3) printed pages. Candidates should check the question paper to ascertain that all the pages are printed as indicated

SECTION A: (40 MARKS)

Answer ALL the questions in this section

1. Define: a) binomial nomenclature b) taxonomy (4 Marks)
2. Differentiate between bioprospecting and biodiversity conservation
3. Ecosystems consist of both exotic and native plant and animal species. Differentiate between native species and alien species giving an example of each (4marks)
4. The environmental organizations globally are advocating for the conservation of biodiversity. List four importance of conserving plant and animal species (4marks)
5. Farmers from village A are environmental conservationists. Mention any Four efficient farming methods that they apply (4marks)
6. Students from institution X are expected to collect plant and animal species for classification purposes. List down Four methods of species collection (4 marks)
7. Some of the plants and animals species introduced to ecosystems becomes invasive. Mention any four characteristics of invasive alien species (4marks)
8. You are assigned to give a talk on the importance of classification. List down Four factors you will talk about (4marks)
9. You are tasked to collect animal species for an experiment in the lab. List any four equipment that you will need for the process (4marks)
10. Water hyacinth is an alien plant specie found in Lake Victoria. Mention any Four disadvantages of invasive alien species (4marks)

SECTION B: (60 MARKS)

Answer any THREE questions in this section.

11. Students from school Y have been given plant and animal specie samples to identify and categorize them according to their classes.
 - a) Describe Five kingdom system of classification (10Marks)
 - b) Highlight two characteristics of each kingdom mentioned in (a) (10 Marks)
12. There are global environmental conventions and treaties that advocates for the conservation of biodiversity in the ecosystems.

- a) Identify any five treaties and give an example of the species and ecosystems that each protect (10marks)
 - b) Explain Five reasons why community sensitization is vital in the protection of biodiversity (10 marks)
13. A group of students went for a field study to identify trees based on their leaves.
- a) Using a diagram explain how they used a dichotomus key in the identification process (10Marks)
 - b) Explain five economic importance of the ecosystem (10Marks)
14. Classification is vital in the study of biodiversities and ecosystems
- a) Elaborate how human being is classified (16Marks)
 - b) Highlight any two favorable conditions for preservation of animal species in the laboratory (4marks)