



AMREF INTERNATIONAL TRAINING CENTER

Qualification Code : 052106T4 ENS
Qualification : Environmental Technician Level 6
Unit Code : ENV/CU/SCI/CC/03/6/A
Unit of Competency : Resource Planning and Management

WRITTEN ASSESSMENT

Time: 3 HOURS

INSTRUCTION TO CANDIDATE

1. Marks for each question are indicated in the brackets
2. This paper consists of **TWO** sections: **A** and **B**
3. Candidates are provided with a separate answer booklet
4. **DO NOT** write on this question paper

*This paper consists of **THREE (3)** printed pages
Candidates should check the question paper to ascertain that all pages are printed
as indicated and that no questions are missing.*

SECTION A: (40 MARKS)

Answer ALL Questions in This Section

1. Outline FOUR reasons for involving the community members in environmental planning activities. (4 Marks)
2. Distinguish between renewable and non-renewable environmental resources (4 Marks)
3. The Environment Management Plan (EMP) is required to ensure sustainable development in the area surrounding the proposed project. Highlight FOUR purposes of developing an Environment Management Plan (EMP). (4 Marks)
4. Eroded land can be rehabilitated through a process called land restoration: Mention FOUR ways by which eroded land can be rehabilitated in Kenya. (4 Marks)
5. Soil conservation is a set of farming methods and practices that keep the land from degradation. Highlight FOUR soil conservation measures. (4 Marks)
6. Name TWO responsibilities that the Constitution of Kenya, 2010 places on every citizen regarding resource use. (4 Marks)
7. Kenya has numerous water and land resources.
 - a) Identify TWO surface water resources found in Kenya. (2 Marks)
 - b) Mention TWO examples of land resources found in Kenya. (2 Marks)
8. Experts estimate that the number of armed conflicts related to water access have doubled in the past decade. Outline FOUR reasons for water conflicts among East African communities. (4 Marks)
9. Using an example in each case, Identify TWO types of ecosystems found in Arid and Semi-Arid Lands (ASALs) found in Kenya. (4 Marks)
10. Explain TWO reasons why the Shamba System should continue being implemented as an agroforestry practice. (4 Marks)

SECTION B: (60 MARKS)

Answer ANY THREE questions in this section

11. You are required to develop a resource management plan which will guides how project resources should be categorized and managed.

a) Discuss FIVE items that should be included in an effective resource management plan. (10 Marks)

b) Explain FIVE steps followed when developing a resource management plan. (10 Marks)

12. Arid and Semi-arid Land (ASAL) areas in Kenya make up to 89% of the country's land mass.

a) Discuss FIVE sustainable land management practices that can be adopted in Kenya's dry areas. (10 Marks)

b) Describe FIVE practices for combating desertification. (10 Marks)

13. Integrated Water Resources Management (IWRM) is a process which promotes coordinated development and management of water, land and related resources.

a) Describe THREE principles of Integrated Water Resources Management. (6 Marks)

b) Elaborate on SEVEN key requirements for effective implementation of Integrated Water Resources Management. (14 Marks)

14. Integrated Coastal Zone Management (ICZM) is a management process that uses an integrated approach in conservation of the coastal resources.

a) Explain FIVE steps followed in implementing Integrated Coastal Zone Management. (10 Marks)

b) Discuss FIVE threats to marine resource conservation. (10 Marks)