

052106T4ENS
ENVIRONMENTAL TECHNICIAN LEVEL 6
ENV/OS/SCI/CC/03/6/A
Perform Resource Planning and Management
July /Aug 2023



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)**

WRITTEN ASSESSMENT

Time: 3 hours

INSTRUCTIONS TO CANDIDATE

1. Marks for each question are indicated in the brackets.
2. The paper consists of **TWO** sections: **A & B**.
3. Do not write on the question paper.
4. A separate answer booklet will be provided.

This paper consists of 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 in environmental planning activities. (4 Marks)
2. Explain the difference between renewable and non-renewable environmental resources and state an example of each. (4 Marks)
3. Highlight FOUR purposes of developing an Environment Management Plan (EMP). (4 Marks)
4. 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. Discuss 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. 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. A resource management plan 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. 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) Propose 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)

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