

**052106T4ENS**

**ENVIRONMENTAL SCIENCE LEVEL 6**

**ENV/OS/SCI/CC/03/6/A**

**Perform Resource Planning and Management**

**March/April 2025**



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

**WRITTEN ASSESSMENT**

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Date: 26.03.2025 08:31 AM

**Time: 3 HOURS**

**INSTRUCTIONS TO CANDIDATE**

1. Marks for each question are indicated in the brackets.
2. The paper consists of **TWO** sections: **A** and **B**
3. Attempt **ALL** the questions in section **A** and Any **THREE** Questions in Section **B**
4. Candidates are provided with a separate answer booklet
5. **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)**

*Attempt ALL the questions in this section.*

1. Human encroachment to forest has resulted to reduction in the tree cover in the country and as result there is a presidential directive to plant and increase the tree cover in the country. List FIVE impacts of deforestation. (5 Marks)
2. Wetland ecosystems provide a wide range of ecological, social and economic benefits. Name FIVE importance of wetlands in Kenya. (5 Marks)
3. Human beings derive benefits from the natural resources available on land. Name FIVE resources on land. (5 Marks)
4. Soil erosion is a significant environmental issue that can lead to the loss of fertile and reduced agricultural productivity to increased sedimentation in water bodies. Identify FIVE causes of soil erosion in Kenya (5 Marks)
5. The global south is experiencing water resource conflicts that results from freshwater scarcity. Highlight FIVE causes of water scarcity in Africa. Highlight FOUR causes of water scarcity (5 Marks)
6. Marine protected areas are important as they reduce pressure on the coastal resources and limit human activities in the coastal areas. Name FIVE resources that are found in the coastal areas (5 Marks)
7. ASALS are considered to be areas that receive little or no rainfall and have little or no vegetation. Write the full meaning of the initials “ASALs” (1 Mark)
8. Zoning is an important aspect as a conservation measure in the ASALs. State TWO importance of zoning (2 Marks)
9. Wildlife resources are attraction sites to tourists and generates revenue to the country. However, they experience a number of challenges. Identify FOUR threats to wildlife resources in Kenya. Identify FOUR threats to wildlife resources in Kenya (4 Marks)
10. Vegetation along the coastal area is over exploited to meet the needs and demands of the people in the coastal region. List THREE threats facing the forest in the coastal areas (3 Marks)

**SECTION B (60 MARKS)**

*Attempt Any THREE Questions in This Section*

11. Wildlife resources are valuable assets in the Kenyan economy that not only put Kenya among the world tourist destination site but also as a world heritage site because of its diversity in wildlife resources, and as result there are challenges affecting sustainable utilization of the wildlife resources in Kenya

- a) Explain FIVE benefits of protecting wildlife resources to the economy of Kenya (10 marks)
- b) Describe FIVE challenges facing the wildlife resources (10 Marks)

12. Land is an important factor of production, to achieve food security in Kenya Soil conservation is essential for maintaining agricultural productivity, continuous production and supply of food to feed its nation. To achieve this, there is maximum utilization of land resource to satisfy human needs leading to land degradation

- a) Describe FIVE practices that promote soil conservation. (10 Marks)
- b) Explain FIVE measures that can be put in place to prevent land degradation (10 Marks)

13. As the saying goes “Water is life”, human activities and environmental processes depend on water to perform and support critical aspects on land. A lot of activities are carried out using water resources therefore challenges are encountered when utilizing it

- a) Explain FIVE importance of water as a resource (10 Marks)
- b) Describe FIVE challenges affecting water resources (10 Marks)

14. Marine ecosystems are made up of immense natural resources. However, these resources are experiencing a number of challenges.

- a) Explain FIVE challenges affecting marine resources (10 Marks)
- b) Describe FIVE measures that you will employ to ensure conservation of marine resources (10Marks)