

**LEVEL 6**

**Demonstrate Environmental Literacy**

**Nov /Dec 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**

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**SECTION A: (40 MARKS)**

*(Answer ALL questions in this section)*

1. State FOUR functions of Environment (4 Marks)
2. Identify FOUR characteristics of hazardous materials. (4 Marks)
3. Identify FOUR benefits of pollution prevention (4 Marks)
4. State FOUR causes of indoor air pollutants at workplaces (4 Marks)
5. Outline FOUR techniques of processing of solid waste (4 Marks)
6. Resource depletion is one of the major global environmental challenges. Highlight FOUR major causes of resource depletion (4 Marks)
7. List FOUR factors that influence climate change on the earth. (4 Marks)
8. State FOUR advantages of renewable energy resources (4 Marks)
9. a) Define Sustainable Development (2 Marks)  
b) State its TWO important components (2 Marks)
10. Identify FOUR benefits of developing a resource conservation plan. (4 Marks)

**SECTION B: (60 MARKS)**

*(Answer ANY THREE questions in this section)*

11. You have been appointed to advise staff and the management working in a plastic manufacturing industry on analysis of resource flow through different parts of its production process  
(a) Explain FIVE importance of adopting circular economy (10 Marks)  
(b) Discuss FIVE disadvantages of adopting linear economy (10 Marks)
12. Recently, there has been rampant violation of environmental laws in Kenya  
(a) Describe FIVE treaties signed by the Kenyan government which are key in the protection and conservation of environmental resources (10 Marks)  
(b) Explain FIVE challenges facing National Environment Management Authority (NEMA) in the conservation of our environment (10 Marks)

13. As the chair of the environmental committee in the County, you have been invited to give a speech on conserving water in the county. Plan your speech by;
- a) Explaining FIVE challenges facing water conservation (10 Marks)
  - b) Discussing FIVE techniques you will recommend for water conservation (10 Marks)
14. You have been deployed in a County Government as an environmental officer. One of the emerging challenges you will encounter is poor electronic waste disposal
- a) Describe FIVE advantages of incineration as a best waste disposal option (10 Marks)
  - b) Discuss FIVE advantages of recycling as a best method of e-waste disposal (10 Marks)

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