

LEVEL 6

Demonstrate Environmental Literacy

Nov/Dec 2024



**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** 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 the questions in this section.

1. Resource conservation includes protection of natural resources because they are limited. State TWO ways of conserving each of the following resources
 - a. Soil (2 Marks)
 - b. Energy (2 Marks)
2. There are various methods on disposing hazardous waste. Differentiate between chemical and biological treatment of hazardous waste. (4 Marks)
3. Problem solving gives us an opportunity to improve the system and relationships. Outline the steps followed in solving problems in an organization (4 Marks)
4. Different types of pollution affects people at one point of their life. Differentiate between light pollution and thermal pollution. (4 Marks)
5. Noise pollution is controllable but not at all times. Explain TWO ways on how noise pollution can be controlled within a learning institution. (4 Marks)
6. Having a clear plan helps focus limited resources on priority areas. State FOUR benefits of developing a resource conservation plan (4 Marks)
7. Personal Protective Equipment (PPE) are of essence to anyone found within a working environment. Highlight FOUR factors to consider when selecting a PPE while working at a plastic waste recycling facility. (4 Marks)
8. Recycling of plastic waste helps reduce solid waste disposal. Differentiate between primary recycling and tertiary recycling of plastic waste (4 Marks)
9. Linear economies rely on using finite resources which when depleted will be hard to restore. State FOUR disadvantages of linear economy on environmental protection (4 Marks)
10. Kenya has several policies and regulations aimed at supporting waste reduction initiatives. State FOUR of these policies and regulations. (4 Marks)

SECTION B (60 MARKS)

Answer Any THREE Questions in This Section

11.

- a) Resource depletion is the consumption of a resource faster than it can be replenished. Discuss FIVE major causes of resource depletion. (10 Marks)
- b) Drinking water sources are subject to contamination and require appropriate treatment. Describe the steps followed in water treatment. (8 Marks)
- c) Environmental management system is a standard that determines resource use. State TWO intended outcomes of the standard (2 Marks)

12.

- a) List FOUR types of stakeholders involved in a project (4 Marks)
- b) Public involvement in environmental programs is a requirement under the 2010 constitution of Kenya. However, private and public entities have bypassed the process during project implementations. Discuss FIVE challenges facing public participation process (10 Marks)
- c) Explain THREE issues that are often included in the recommendation of environmental reports (6 Marks)

13.

- a) Article 69 of the constitution of Kenya 2010 outlines several principles and obligations for environmental protection and sustainable resource use. Describe FIVE Methods for economizing and reducing resource consumption based on this article (10 Marks)
- b) The Kenya Sustainable Waste Management Act, 2022 is a comprehensive framework aimed at promoting sustainable waste management practices across the county. Explain FIVE aspect of the Act that supports environmental management sustainability. (10 Marks)

14.

- a) You have an opportunity to collect data from your rural village on causes of water pollution. Describe how you will use both qualitative and quantitative methods to collect this information from the household heads. (10 Marks)
- b) Environmentally hazardous materials are considered to have safe storage in containers. Explain FIVE areas that are key to the hazardous materials container management. (10 Marks)