

**LEVEL 6**

**Demonstrate Environmental Literacy**

**July /Aug 2023**



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

**WRITTEN ASSESSMENT**

**Time: 3 hours**

**INSTRUCTIONS TO CANDIDATE**

1. The paper consists of TWO sections: A & B.
2. Marks for each question are indicated in the brackets.
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. Natural resources can be classified into stock resources and reserve resources. Differentiate these TWO resources based on their characteristics of exploitation. (4 Marks)
2. Outline FOUR types of physical hazards. (4 Marks)
3. Identify THREE factors to consider when selecting containers for storing hazardous materials. (3 Marks)
4. Mention FIVE institutions established under Environmental Management Coordination Act 1999. (5 Marks)
5. Explain TWO methods of minimizing air pollution emanating from public transport vehicles. (4 Marks)
6. Recycling is a solid waste management process. Outline FOUR benefits of adopting recycling in a manufacturing industry. (4 Marks)
7. Climate change is one of the major global environmental challenges. Highlight FOUR causes of climate change. (4 Marks)
8. Discuss TWO benefits of stakeholder consultation in the successful implementation of environmental programs. (4 Marks)
9. Identify the first FOUR steps in developing a resource conservation plan. (4 Marks)
10. Suggest FOUR approaches that can be adopted by county governments to control illegal dumping of waste. (4 Marks)

**SECTION B: (60 MARKS)**

*(Answer ANY THREE questions in this section)*

11. You have been deployed in a County Government as an environmental officer.
- (a) Suggest FIVE environmental conservation projects that you can implement under your jurisdiction. (10 Marks)
  - (b) Discuss FIVE benefits of engaging various stakeholders in the implementation of the project. (10 Marks)
12. Recently, there has been rampant violation of environmental laws in Kenya
- (a) Describe FIVE approaches that can be adopted for effective enforcement of environmental laws. (10 Marks)
  - b) Explain FIVE functions of National Environment Management Authority (NEMA). (10 Marks)
13. As the chair of the environmental committee in the County, you have been invited to give a speech on energy sources. Examine why the county infrastructural department should adopt renewable sources in favour of non-renewable by;
- a) Explaining FIVE benefits of renewable energy. (10 Marks)
  - b) Discussing FIVE disadvantages of non-renewable energy. (10 Marks)
14. You have been appointed to advice staff and the management working in an industrial scale incinerator.
- (a) Explain FIVE health effects of prolonged exposure to poisonous fumes emanating from the incinerator. (10 Marks)
  - b) Elaborate FIVE mitigation measures that can be undertaken to ensure safety of workers. (10 Marks)

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