

**LEVEL 4**

**DEMONSTRATE ENVIRONMENTAL LITERACY**

**July/August 2024**



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

**WRITTEN ASSESSMENT**

**Time: 2 HOURS**

**INSTRUCTIONS TO CANDIDATE:**

- i. This paper consists of **TWO** sections: **A & B**.
- ii. Answer **ALL** questions in sections **A** and in section **B**
- iii. Marks for each question are indicated in the brackets.
- iv. Do not write on the question paper
- v. Answer all questions in **English**.

**This paper consists FOUR (4) printed pages.**

**Candidate should check the question paper to ascertain that  
all pages are printed as indicated and that no questions are missing.**

**SECTION A (10 MARKS)**

*(Answer all the questions in this section, each question is one mark)*

1. Which of the following materials is commonly used as a source of energy for generating electricity
  - A. Mine brine
  - B. Natural gas
  - C. Broken computers
  - D. Used oil
2. Select a consequence of climate change
  - A. Increase in urbanization
  - B. Sea level rise
  - C. Decrease in air pollution
  - D. Expansion of wildlife habitats
3. ----- is a waste disposal method where organic wastes are converted to residues and gaseous products through combustion.
  - A. Incineration
  - B. Incubation
  - C. Composting
  - D. Recycling
4. Identify a Personal Protective Equipment, PPE specifically designed to protect against industrial noise.
  - A. Safety goggles
  - B. Earplugs
  - C. Respirators
  - D. Helmet
5. Which organization in Kenya is responsible for overseeing the management of environmental issues and enforcing regulations
  - A. Ministry of Environment
  - B. Kenya Revenue Authority KRA
  - C. National Environmental Management Authority NEMA
  - D. Environmental Management Act EMCA

6. Which of the following is not considered a greenhouse gas
  - A. Carbon dioxide
  - B. Methane
  - C. Nitrous oxide
  - D. Oxygen
7. Identify one principle that focuses on maximizing the use of resources and minimizing waste.
  - A. Resource conservation
  - B. Quality assurance
  - C. Lean manufacturing
  - D. Depletion
8. Which one of the following is not considered an impact of air pollution
  - A. Overfertilization
  - B. Acidification
  - C. Stunted growth
  - D. Improved health
9. ----- is classified as a non-renewable source of energy
  - A. Wind
  - B. Biomass
  - C. Coal
  - D. Solar
10. Which of the following is a physical hazard
  - A. Vibration
  - B. Bacteria
  - C. Alcohol abuse
  - D. Gas leaks

**SECTION B (40 MARKS)**

*(Answer all the questions in this section)*

11. State the 3Rs principles to the environment. (3 Marks)
12. Name FIVE types of solid waste. (5 Marks)
13. Name FOUR pollutants from farming (4 Marks)
14. Outline FOUR environmental pollution control measures (4 Marks)
15. Giving examples, explain the differences between renewable and non-renewable sources of energy. (4 Marks)
16. State FIVE characteristics of hazardous materials (5 Marks)
17. State FIVE effects of global warming. (5 Marks)
18. State THREE methods of disposing of waste (3 Marks)
19. Outline FOUR criteria to be considered while choosing tanks and containers for storage for storage. (4 Marks)
20. List THREE effects of hot temperature in work place. (3 Marks)