

LEVEL 4

Demonstrate Environmental Literacy

Nov /Dec 2023



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

WRITTEN ASSESSMENT

Time: 2 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. Do not write on the question paper.
4. A separate answer booklet will be provided.

This paper consists of 4 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 (10 MARKS)

Answer ALL the questions in this section

Each correct answer is 1 Mark

1. Select a non-renewable energy from the following
 - A. Coal
 - B. Fuel cells
 - C. Wind power
 - D. Wave Power
2. The removal of carbon dioxide from earth's atmosphere and the provision of long term storage of carbon in the terrestrial biosphere is known as _____
 - A. Carbon fixing
 - B. Carbon sequestration
 - C. Carbon dating
 - D. Photosynthesis
3. Identify the effect of greenhouse gases on the average temperature of the earth's atmosphere.
 - A. Decreases
 - B. First increases and then decreases
 - C. Remains the same
 - D. Increases
4. Choose an environmental governing body in Kenya
 - A. NEMA
 - B. Ministry of Environment
 - C. Government of Kenya
 - D. EMCA
5. Which of the following is the most ideal disposal method for hazardous waste from Uranium?
 - A. Landfills
 - B. Injection wells
 - C. Recycling
 - D. Sea dumping

6. _____ is made up of smoke and fog
- A. Cloud
 - B. Smog
 - C. Frost
 - D. Haze
7. Tendency of pollutants to become concentrated in successive trophic levels is known as?
- A. Bio piracy
 - B. Biorhythm
 - C. Bio magnification
 - D. Bioremediation
8. Select a secondary air pollutant from the following types.
- A. Carbon monoxide
 - B. Sulphur dioxide
 - C. Ozone
 - D. Carbon dioxide
9. 3R's principles in waste management should be in which order?
- A. Reduce, Reuse, Recycle
 - B. Reuse, Reduce, Recycle
 - C. Recycle, Reuse Reduce
 - D. Reduce, Recycle, Reuse
10. The concept of sustainable development encourages _____
- A. Form of growth that meets basic needs
 - B. Preservation of the resources for the need of future generations
 - C. A change in all aspects of life
 - D. Growth to meet current needs, preservation for the needs of future and change in lifestyle

SECTION B (40 MARKS)

Answer ALL questions in this section

11. Identify FOUR techniques employed by processing industries to minimize waste (4 Marks)
12. List FIVE physical hazards encountered in a biological laboratory (5 Marks)
13. State FOUR types of Personal Protective Equipment (PPEs) used in the mechanical workshop for protecting eyes (4 Marks)
14. Enumerate FOUR steps involved in developing an environmental resource efficiency system (4 Marks)
15. Mention FOUR effects of inorganic substances in water (4 Marks)
16. Name FOUR benefits of using resource efficiency systems in organizations (4 Marks)
17. Mention first FIVE steps taken in developing purchasing strategies (5 Marks)
18. State FIVE man-made sources of nuclear hazards (5 Marks)
19. List FIVE ways of controlling global warming (5 Marks)

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