

LEVEL 4

Demonstrate Environmental Literacy

July /Aug 2023



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

WRITTEN ASSESSMENT

Time: 2 hours

INSTRUCTIONS TO CANDIDATE

1. The paper consists of **TWO** sections: A and 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 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 management plan that a manufacturing company should develop for effective disposal of solid waste
 - A. Integrated waste management plan
 - B. Recycling of waste management plan
 - C. Reducing of waste management plan
 - D. Use of waste management plan
2. Choose a physical waste water quality parameter
 - A. Amount of phosphates
 - B. Turbidity
 - C. Chemical Oxygen Demand
 - D. Total Phosphates
3. Identify a disadvantage of renewable energy
 - A. High pollution
 - B. Available only in few places
 - C. High running cost
 - D. High initial cost
4. Choose a major cause of deforestation from the following activities
 - A. Industrial development
 - B. Cultivation
 - C. Hunting
 - D. Agroforestry
5. What characteristic makes waste to be classified as hazardous?
 - A. When waste will not cause any explosion
 - B. When waste increase mortality
 - C. When waste is less toxic
 - D. When waste is biodegradable
6. Select the second level of practice in integrated solid waste management hierarchy
 - A. Prevention

- B. Minimization
 - C. Disposal
 - D. Recycling
7. What is the main contributor of ozone layer depletion?
- A. Emission of Carbon dioxide
 - B. Burning of litter
 - C. Emission of halons
 - D. Emission of Carbon monoxide
8. Which of the following is a major effect of noise level exceeding 90 decibels?
- A. Nausea
 - B. Irritation
 - C. Auditory impairment
 - D. Headache
9. Gases that contribute to global warming are known as?
- A. Greenhouse gases
 - B. Brown gases
 - C. Inert gases
 - D. Chlorofluorocarbons
10. Which gases are responsible for acid rain formation?
- A. Sulphur dioxide and Nitrogen oxides
 - B. Carbon dioxide and Carbon monoxide
 - C. Hydrogen sulphide and methane
 - D. Argon and Helium

SECTION B: (40 MARKS)

Answer All questions in this section

11. Identify FOUR objectives of monitoring environmental resources. (4 Marks)
12. List FIVE benefits of supporting the blue economy. (5 Marks)
13. State FOUR types of Personal Protective Equipment (PPEs) used in a workshop. (4 Marks)
14. Outline FOUR methods used for the disposal of radioactive waste generated from a processing Industry. (4 Marks)
15. Highlight FIVE environmentally friendly solid waste management practices. (5 Marks)
16. Outline FIVE common sources of indoor air pollution. (5 Marks)
17. Mention FOUR methods that can be used in the conservation of non-renewable resources. (4 Marks)
18. Differentiate between recycling and reusing in resource use efficiency. (4 Marks)
19. State FIVE ways that can be adopted by a manufacturing industry for sustainable resource utilization. (5 Marks)

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