

LEVEL 5

Demonstrate Environmental Literacy

March/April 2024



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

WRITTEN ASSESSMENT

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE:

- i. *This paper consists of **THREE** sections: A, B & C*
- ii. *Answer **ALL** questions in sections **A and B**, and any **TWO** questions in section **C** in the answer booklet provided.*
- 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 SIX (6) 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 (20 MARKS)

Answer all questions, each question is 1 mark

1. Tracking of hazardous waste is done to prevent _____
 - A. Export
 - B. Import
 - C. Midnight dumping
 - D. Traffic

2. Who is responsible for providing the worker with Personal Protective Equipment?
 - A. Employer
 - B. Supervisor
 - C. Co-worker
 - D. Employee

3. Which one of the following is the primary cause of water pollution?
 - A. Plants
 - B. Animal
 - C. Human activities
 - D. Heavy metals

4. Which of the following solid wastes describes the term 'Municipal Solid Waste'?
 - A. Toxic
 - B. Hazardous
 - C. Biomedical
 - D. Non-hazardous

5. How can we reduce the noise in industries?
 - A. By using the heavy machinery
 - B. Use of concrete walls or sound proofs
 - C. By increasing the number of employees
 - D. By reduce the production of the industries

6. What is the disadvantage of plastics waste?
 - A. Environmentally-friendly
 - B. It comes in different sizes
 - C. It can death
 - D. It is non-biodegradable

7. What is the main significance of sustainable development?
 - A. To preserve and conserve the natural resources for the needs of the future generation
 - B. To exploit the available resource for rapid improvement
 - C. To increase the cost of available natural resources
 - D. To increase the reservoirs of natural resources
8. Hazardous waste management is governed by which one of the following conventions?
 - A. Rio convention
 - B. Stockholm convention
 - C. Kyoto protocol
 - D. Basel convention
9. Which of the following practices would you identify as an issue for resource efficiency?
 - A. Buying personal cars
 - B. Closing running tap water when not in use.
 - C. Lighting on midday
 - D. Using a dishwasher on economy cycle
10. When the organic matter present in the sanitary landfill decomposes, it generates?
 - A. Methane
 - B. Nitrogen
 - C. Hydrogen
 - D. Oxygen
11. What is the correct order of the 3R's principle?
 - A. Recycle, Reuse, Reduce
 - B. Reuse, Reduce, Recycle
 - C. Reduce, Reuse, Recycle
 - D. Recycle, Reduce, Recycle
12. What is the negative impact of food processing on the environment?
 - A. Provide food security
 - B. Causes disposal problems
 - C. Creates employment
 - D. Promotes forest cover

13. What is Environmental Compliance in Kenya?
- A. Adhering to international regulations
 - B. Conforming to constitutional laws
 - C. Conforming to environmental laws
 - D. Conforming to customary laws
14. ISO 14001 is:
- A. a particularly harmful global warming gas
 - B. a European Union regulation on pollution abatement
 - C. a water quality regulation set out under the UK 1996 Environment Act
 - D. An international standard setting out best practice for carrying out audits by companies of their environmental management systems and policies
15. Which one of the following is not a 'renewable' energy source?
- A. Solar
 - B. Coal
 - C. Geothermal
 - D. Wind
16. Which of the following is a storage method of environmentally hazardous material?
- A. Open tanks
 - B. Open pits
 - C. Injection wells
 - D. Incineration
17. Which one of the following is a source of thermal pollution?
- A. Residential houses
 - B. Power plants
 - C. Death of marine organisms
 - D. Oil spill

18. Which is the odd one out in relation to resource usage?
- A. Resource efficiency systems
 - B. Purchasing strategies
 - C. Resource exploitation
 - D. Data analysis on work processes
19. Which of the following is the principal guiding Act in environmental matters in Kenya?
- A. Water Act
 - B. National Climate Change Action Plan (NCCAP)
 - C. Air Quality Regulations
 - D. Environment Management and Coordination Act (EMCA)
20. Which option below explains the disadvantage of using fossil fuels as energy sources?
- A. It is hard to transport
 - B. It uses oxygen in the process of burning
 - C. It is extracted from deep inside the Earth
 - D. It releases harmful gases into the atmosphere when they burn

SECTION B (40 MARKS)

Answer ALL questions in this section

21. State FIVE benefits of an environmental management system in an organization (5 marks)
22. Explain TWO causes of climate change (4 marks)
23. Identify FIVE common causes of air pollution in the environment (5 Marks)
24. Outline FOUR benefits of stakeholder consultation in a development project (4 marks)
25. State FOUR environmental principles (4 Marks)
26. List FOUR greenhouse gases present in the atmosphere (4 Marks)
27. State FOUR ways that an organization can use to improve resource efficiency (4 Marks)
28. State FOUR disposal options for environmentally hazardous materials (4 marks)
29. State THREE types of solid waste (3 marks)
30. Explain why the destruction of forests contributes to Global warming (3 marks)

SECTION C (40 MARKS)

Answer any TWO questions in this section, all questions carry equal marks

31. (a) Define the following terms;
- i. Resource consumption (2 marks)
 - ii. Recycle (2 marks)
- (b) Discuss TWO categories of environmental resources giving appropriate examples (6 marks)
- (c) Highlight FIVE benefits of minimizing wastage in an organization (10 marks)
32. (a) Explain FIVE effects of global warming (10 Marks)
- (b) Discuss FIVE types of pollution in the environment (10 marks)
33. Describe the process involved in identification of programs and activities within a community for their benefit (20 marks)

THIS IS THE LAST PRINTED PAGE