

**Demonstrate Environmental Literacy Level 3**

**2 Hours**

**March/April 2023**



**THE KENYA NATIONAL EXAMINATIONS COUNCIL**

**WRITTEN ASSESSMENT**

**Time: 2 hours**

**INSTRUCTIONS TO CANDIDATE**

*This paper consists of **TWO** sections **A** and **B**.*

*Answer **ALL** questions in sections **A** and **B** in the answer booklet provided.*

*Marks for each question are indicated in brackets.*

*Do not write on this question paper.*

*Answer the questions in **English**.*

**This paper consists of SIX (6) printed pages.**

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

**SECTION A (20 MARKS)**

For question 1 to 10, indicate whether the following statements are *TRUE* or *FALSE*. Each question carries *one* mark.

1. Chlorofluorocarbons are chemicals that damage ozone layer.
  - A. True
  - B. False
2. Global warming is caused by gases such as Carbon monoxide.
  - A. True
  - B. False
3. Landfills are engineered for liquid waste.
  - A. True
  - B. False
4. National Environmental Management Authority (NEMA) Kenya is responsible for environmental protection.
  - A. True
  - B. False
5. Corrosivity is a characteristic of hazardous waste.
  - A. True
  - B. False
6. Leachate from solid waste disposal is a major source of groundwater pollution.
  - A. True
  - B. False
7. Cars cause indoor air pollution.
  - A. True
  - B. False
8. Carbon dioxide and Sulphur dioxide are examples of secondary air pollutants.
  - A. True
  - B. False

9. Vibration is an example of physical hazards.

- A. True
- B. False

10. Biomass is a renewable source of energy.

- A. True
- B. False

*For question 11 to 20, choose the correct answer from the choices given. Each question carries one mark.*

11. Which one of the following type of timber extraction is least damaging to the environment?

- A. Clear felling
- B. Mechanized logging.
- C. Reduced impact logging
- D. Hand logging

12. Which one of the following is an adverse effect of modern agriculture?

- A. Water scarcity
- B. Water pollution
- C. Water logging
- D. Water use

13. Which one of the following is a disadvantage of the renewable energy sources?

- A. Highly polluting
- B. unreliable supply
- C. High waste Disposal cost
- D. high Running cost

14. Out of the following nutrients in fertilizer, which one causes minimum water pollution?
- A. Nitrogen
  - B. Phosphorus
  - C. Potassium
  - D. Organic matter
15. Which one of the following strategies should be given first preference in plastic waste management?
- A. Recycle
  - B. Reuse
  - C. Reduce the usage
  - D. None of the above
16. Which one of the following is hazardous waste?
- A. Food waste
  - B. Animal waste
  - C. Acid spills
  - D. Old furniture
17. You are to clean a dumpsite for solid waste, which one of the following is a personal protective equipment (PPE) worn for the task?
- A. Leather gloves
  - B. Surgical gloves
  - C. Head cap
  - D. Blue black goggles

18. \_\_\_\_\_ is not a problem associated with population growth.
- A. increased resource consumption
  - B. food and energy shortage
  - C. environmental pollution
  - D. sustainable resource use
19. Reduction in the usage of fossil fuels can be brought about by the following **except**?
- A. using alternative energy source
  - B. changing lifestyle
  - C. reducing car taxes
  - D. encouraging the use of mass transport system such as buses and railways
20. Which one of the following is a hazardous waste?
- A. Food waste
  - B. Animal waste
  - C. Acid spills
  - D. Old furniture

**SECTION B (30 MARKS)**

*Answer **all** questions in this section*

21. Highlight **three** functions of natural environment. (3 marks)
22. List **two** environmental effects of deforestation. (2 marks)
23. Enumerate **four** methods of preventing soil erosion. (4 marks)
24. State **three** ways of reducing water wastage. (3 marks)
25. Identify **three** environmental problems associated with chemical fertilizers. (3 marks)
26. Name **three** biological hazards. (3 marks)
27. List **three** examples of domestic waste. (3 marks)
28. State **three** benefits of recycling waste. (3 marks)
29. Differentiate between deforestation and forest degradation. (4 marks)
30. State **two** importance of reusing waste water. (2 marks)

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