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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