



AMREF INTERNATIONAL TRAINING CENTER

Qualification Code :
Qualification : LEVEL 6
Unit Code :
Unit of Competency : Demonstrate Environmental Literacy

WRITTEN ASSESSMENT

INSTRUCTIONS TO CANDIDATE:

- i. You are allocated **THREE (3) HOURS** to answer all the questions.
- ii. This paper consists of **TWO** sections (A, B).
- iii. Marks for each question are indicated in the brackets.
- iv. Do not write on the question paper

*This paper consists of **THREE** printed pages; Candidates should check the question paper to ascertain that all pages are printed.*

SECTION A: (40 MARKS)

Answer all the questions in this section

1. Historically, Kenya has followed a linear economy model but in recent years, there is a growing interest in transitioning towards a circular economy. Identify THREE advantages of circular economy. (3 marks)
2. Incineration is often used to dispose of municipal solid waste, medical waste and hazardous materials by converting them into ash, gases and heat. State THREE disadvantages of incineration. (3 marks)
3. Environmentally hazardous materials are items or agents that potentially have the ability to cause harm to the environment. Outline THREE characteristics of environmentally hazardous materials. (3 marks)
4. Waste minimization is an important aspect in addressing environmental pollution. Highlight THREE waste minimization techniques. (3 marks)
5. An environmental strategy is a set of initiatives that can be implemented to reduce the impacts and effects on the natural environment through products, processes and policies. Identify THREE features of an environmental strategy. (3 marks)
6. Kenya is a signatory to several environmental multilateral agreements aimed at addressing various environmental challenges and promoting sustainable development. Outline THREE environmental multilateral agreements that Kenya has signed. (3 marks)
7. Environmental principles inform legal frameworks that aim to minimize the effects of human activity on the environment. State THREE environmental principles. (3mark)
8. Land use and landcover change is a global environmental concern. Identify THREE effects of land use and land cover change. (3 marks)
9. Drinking water sources are subject to contamination and require appropriate treatment. Highlight FOUR stages of water treatment. (4 marks)
10. Resource depletion is the consumption of a resource faster than it can be replenished. Identify FOUR causes of resource depletion in Kenya. (4 marks)

11. EMCA 1999 guides Kenya on all areas concerning the environment and the institutions concerned with enforcement. Highlight FOUR institutions that have been established through this principal act. (4 marks)
12. Non-renewable energy resources have played a crucial role in driving economic and industrial growth despite their drawbacks. Name FOUR disadvantages of non-renewable energy sources. (4 marks)

SECTION B:(60 MARKS)

Answer question 13 and any other TWO questions

13. Climate change and global warming are major environmental concerns in our country. Kenya has been actively involved in various initiatives to address these issues by implementing projects to enhance climate resilience and promote sustainable development.
- a) Explain FIVE factors contributing to climate change. (10 marks)
 - b) Discuss FIVE impacts of global warming. (10 marks)
14. You are invited as a keynote speaker at Amref International University to discuss data analysis with the students.
- a) Explain FIVE Phases of data analysis that you will include in your presentation. (10 marks)
 - b) Describe FIVE challenges of using questionnaires in data collection. (10 marks)
15. Lake Victoria, the largest freshwater lake in Africa, is facing significant water pollution challenges due to industrial discharge, agricultural runoff, and domestic waste.
- a) Explain FIVE effects of water pollution. (10 marks)
 - b) Elaborate FIVE control measures to water pollution. (10 marks)
16. Monitoring and evaluation (M&E) is a crucial process in project and program management. It involves systematically collecting and analyzing information to track the progress and impact of projects or programs
- a) Describe FIVE benefits of stakeholder involvement in monitoring and evaluation. (10marks)
 - b) Explain FIVE advantages of assigning roles and responsibilities when working on monitoring and evaluation projects. (10 marks)