



AMREF INTERNATIONAL TRAINING CENTRE

Qualification Code :

Qualification : Environmental Science Level 6

Unit Code : ENV/CU/SCI/CR/01/6/A

Unit of Competency : Ecological Monitoring and Evaluation

WRITTEN ASSESSMENT

Time: 3 Hours

INSTRUCTIONS TO CANDIDATE

1. This paper has two sections A and B
2. You are provided with a separate answer booklet
3. Marks for each question are as indicated
4. Do not write on the question paper

This paper consists of five (3) printed pages. Candidates should check the question paper to ascertain that all the pages are printed as indicated

SECTION A: (40 MARKS)

Answer ALL the questions in this section

1. Define ecological niche and ecological balance (4 Marks)
2. Differentiate between monitoring and assessment (4marks)
3. You are to do an environmental monitoring and evaluation of the projects being done within your surroundings. Highlight any four characteristics of effective environmental monitoring parameters you will use. (4marks)
4. The environment plays a vital role in the sustainability of lives. Mention any two types of ecological indicators with an example of each (4marks)
5. The globe is evolving and new technologies are emerging daily. Identify any four emerging technologies in environmental monitoring. (4marks)
6. There are a number of techniques used in ecological monitoring. List any two ecological monitoring techniques, give an example of each. (4marks)
7. Mr. J wants to identify the similarities between environmental impact assessment and ecological monitoring and assessment. Mention any 4 similarities he is likely to identify. (4 marks)
8. During an environmental conference, there was creation of awareness on the importance of monitoring and evaluating the environment. Mention four importance of environmental monitoring that were mentioned. (4marks)
9. The public plays a vital role when doing an environmental assessment. Give two reasons why it is important for the public to participate in the process. (4marks)
10. Highlight any four indicators for the need of assessment in an ecosystem. (4marks)

SECTION B: (60 MARKS)

Answer any THREE questions in this section.

11. A society can choose not to do environmental monitoring and evaluation on projects and the well-being of their environment
 - a) Outline five consequences that the environment will face as a result of neglecting monitoring and assessment. (10 Marks)
 - b) Describe the five steps followed when developing an ecological monitoring indicator. (10 Marks)

12. Mr. Y wants to design an environmental rehabilitation and restoration plan for a given region within his village
- a) Explain five factors he will consider when determining the objectives of the plan. (10marks)
 - b) Explain FOUR factors that he will consider in the implementation of the plan. (10 marks)
13. A group of students were to assess the environmental management status within their school vicinity
- a) Explain five ways in which ecological monitoring and assessment is applied in environmental management (10 Marks)
 - b) Giving examples, describe five ecological monitoring techniques that the students will use (10Marks)
14. The ecosystem is broadly divided into two categories
- a) Outline the two categories of ecosystem, give an example of ecosystem in each category (8marks)
 - b) Briefly explain any six economic importance of the ecosystems to the environment (12 Marks)