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LEVEL 5

Demonstrate Environmental Literacy

Nov/Dec 2024

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

WRITTEN ASSESSMENT

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Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE

1. Marks for each question are indicated in the brackets.
2. The paper consists of **TWO** sections: **A** and **B**.
3. Candidates are provided with a separate answer booklet
4. **DO NOT** write on this question paper.

This paper consists of THREE (3) printed pages

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

SECTION A (40 MARKS)

Answer ALL the questions in this section.

1. Monitoring and evaluation are important to assess program results. State FOUR benefits of monitoring and evaluation of an environmental project. (4 Marks)
2. Waste can be classified based on their basic composition. Give FOUR of these classifications. (4 Marks)
3. The success of a project depends on a number of factors. State FOUR issues to consider before initiating an environmental project. (4 Marks)
4. There are different ways on how to minimize noise pollution. Differentiate between source control and path control as used in minimizing noise pollution. (4 Marks)
5. A stakeholder is either an individual, group organization who is interested in a project. State FOUR importance of stakeholder involvement. (4 Marks)
6. NEEMA community are planning to start a project on collecting and recycling of plastic wastes within their local market. As an environmental expert, determine the best FOUR ways on how the data collected during group discussions and interviews by the community is to be presented. (4 Marks)
7. Sustainable development has three (3) pillars: economic, environmental, and social. List FOUR problems faced by the rural communities in Kenya. (4 Marks)
8. Resource efficiency systems, involves gaining the most out of what you have. Outline the procedure followed when developing an environmental resource efficiency system. (4 Marks)
9. Climate change and mitigation has been emphasized by the Bottom-up Economic Agenda (BETA) as a local goal to achieving development in Kenya. Highlight FOUR effects of climate change in Kenya today. (4 Marks)
10. Environmental literacy is a good course that its content should be made available to all learners. State FOUR stakeholders that should be involved to ensure that this is achieved at a primary school level (4 Marks)

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SECTION B (60 MARKS)

Answer Any THREE Questions in This Section

11. Storing environmentally hazardous materials safely is crucial to prevent accidents and there are several methods for disposing such hazardous waste.
    a. Explain FIVE common methods used in disposing hazardous waste around the world today. (10 Marks)
    b. Elaborate on FIVE best practices used to prevent accidents caused by hazardous material at the workplace. (10 Marks)

12. Solid waste management is of importance in an organization.
    a. Describe the procedure for solid waste management in an organization. (10 Marks)
    b. Explain FIVE advantages of incineration in solid waste. (10 Marks)

13. There are various legislations on environmental protection and management
    a. Explain FIVE functions on National Environment Management Authority (NEMA) that supports environmental management in Kenya. (10 Marks)
    b.
        i. List FOUR gases whose release to the atmosphere are controlled under the Kyoto Protocol (4 Marks)
        ii. Under Environmental Management and Coordination Act 1999, in exercising their jurisdiction, the high court shall be guided by principles of sustainable development. Explain THREE principles of Sustainable Development (SD) (6 Marks)

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14. Air pollution has various impacts to various sector of a society.
    a. Elaborate FOUR impacts of air pollution (8 Marks)
    b. The uptake of new technological innovations towards natural resources sustainability has been affected by several factors in Africa. Explain FOUR of these factors. (8 Marks)
    c. Outline the steps followed in solving problems encountered during the implementation of an environmental project. (4 Marks)