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LEVEL 5

DEMONSTRATE ENVIRONMENTAL LITERACY

July/August 2024

TVET CURRICULUM DEVELOPMENT ASSESSMENT AND CERTIFICATION COUNCIL (TVET CDACC)

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WRITTEN ASSESSMENT

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE:

i. This paper consists of **TWO** sections: **A & B.**
ii. Answer **ALL** questions in sections **A** and any three questions in section **B**
iii. Marks for each question are indicated in the brackets.
iv. Do not write on the question paper
v. Answer all questions in **English**.

This paper consists THREE (3) printed pages.
Candidate 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 questions in the section

1. Rapid industrialization and urbanization have contributed to challenges in handling hazardous waste. Name FOUR ways of managing hazardous waste to protect the environment. (4 Marks)
2. In adopting strategies of renewable energy sources, the challenges of using fossil fuels have become evident. Outline FOUR challenges of using fossil fuels as a source of energy (4 Marks)
3. Industrial waste management practices in a highly populated urban area and storage methods for environmentally hazardous materials are crucial in minimizing risks to public health and the environment. State FOUR storage methods for environmentally hazardous materials. (4 Marks)
4. By evaluating various energy options, communities can decide on their energy needs and enhance global efforts in combating climate change. List FOUR renewable energy sources. (4 Marks)
5. The concept of sustainable development is a crucial approach to addressing environmental challenges by ensuring the well-being of current and future generations. Identify FOUR significance of sustainable development. (4 Marks)
6. Water pollution happens when harmful substances contaminate water bodies like rivers, lakes, and oceans. Mention FOUR primary causes of water pollution. (4 Marks)
7. Global warming is caused by increased greenhouse gases trapping heat in the atmosphere. State FOUR effects of global warming on the environment. (4 Marks)
8. Environmental pollution occurs when harmful substances contaminate the environment. Identify FOUR forms of environmental pollution. (4 Marks)
9. Personal Protective Equipment helps keep workers safe in hazardous environments. Name FOUR PPEs used in a hazardous environment. (4 Marks)
10. Environmental Auditing is an organization's means of gathering environmental information to see whether or not the organization is environmentally sound. Outline FOUR main objectives of environmental auditing. (4 Marks)

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SECTION B (60 MARKS)

*Answer **Any THREE** questions in this section*

11. In Kijiji ndogo village a processing company decided to implement environmental sustainability principles. As a result, they not only improved their environmental impact but also saved on operational costs, thus increasing profitability and community support. Despite this change, the village recently experienced heavy rainfall that led to property damage, disruption of infrastructure and exposed the community's vulnerability and struggle with limited resources to contain the situation.
    a. Describe any FOUR environmental sustainability principles practiced. (8 Marks)
    b. Explain SIX causes of climate change. (12 Marks)
12. Stakeholder consultation in a development project involves engaging with individuals, groups, or organizations affected by the project.
    a. Explain FIVE benefits of stakeholder consultation in a development project. (10 Marks)
    b. Discuss FIVE challenges facing stakeholder consultation in development projects. (10 Marks)

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13. Solid waste refers to any garbage, rubbish, or discarded materials generated by human activities.
    a. Discuss FIVE common types of solid wastes. (10 Marks)
    b. Explain FIVE impacts of solid waste to the environment. (10 Marks)
14 Implementing an Environmental Management System (EMS) helps organizations identify and mitigate environmental responsibilities efficiently.
    a. Explain FIVE advantages of an EMS in an organization. (10 Marks)
    b. Examine FIVE challenges facing implementation of EMS in organizations. (10 Marks)