

052106T4ENS

ENVIRONMENTAL SCIENCE LEVEL 6

ENV/OS/SCI/CC/02/6/A

Manage Climate Change and Global Warming

March/April 2025



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

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WRITTEN ASSESSMENT

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE

1. The paper consists of **TWO** sections: **A** and **B**
2. Attempt **ALL** the questions in section **A** and Any **THREE** Questions in Section **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)

Attempt ALL the questions in this section.

1. COP 29 Conference was held in Baku, Azerbaijan in November 2024. The main theme of the conference was climate change and greenhouse gases. Highlight FIVE greenhouse gases that cause global warming. (5 Marks)
2. To reduce the emission of greenhouse gases there are policies to adopt cleaner sources of energy. List FIVE alternative sources of energy available for use (5 Marks)
3. Forest is among the natural resources in the environment that plays a vital role in the ecosystem. State FIVE importance of forest in the environment (5 Marks)
4. Efficiency refers to the ability to achieve an end goal with little or no waste, effort or energy. Give FOUR resource efficiency mechanisms that can be adopted to achieve efficiency in environmental conservation (4 Marks)
5. There are indicators that have shown that there change in climate. Highlight FIVE indicators of climate change (5 Marks)
6. Climate change and global warming account for positive and negative changes in the environment. Identify FOUR negative effects of climate change on the environment. (4 Marks)
7. Kenya is among the developing countries in the world that has experienced climate change to a point that agricultural production is affected. State FIVE impacts of climate change on agriculture. (5 Marks)
8. Human activities have been listed as a major cause of climate change. Highlight FOUR habits that have contributed to climate change (4 Marks)
9. You have been invited to give a talk on environmental issues of concern Distinguish between climate change and global warming (2 Marks)
10. Due to climate change and global warming, world environmental day is marked to create education and awareness about environmental conservation. When is the world environmental day celebrated worldwide (1 Mark)

SECTION B (60 MARKS)

Attempt Any THREE Questions in This Section

11. Due to climate change the world experiences a shift in weather patterns in different areas

a) Describe FIVE positive effects of climate change in the environment (10 Marks)

b) Explain FIVE importance of the above effect on fisheries resources (10 Marks)

12. Local communities play important roles in natural resource conservation in combating global warming and climate change

a) Explain FIVE importance of engaging local communities in addressing issues of global warming and climate change (10 Marks)

b) Explain FIVE challenges the government faces in addressing climate change and global warming (10 Marks)

13. Climate change and global warming is an environmental challenge which may take a longer period to reverse. In order to address it, new technologies and local knowledge are critical

a) Describe FIVE technologies adopted to combating climate change (10 Marks)

b) Explain FIVE roles of indigenous knowledge in addressing climate change (10 Marks)

14. International laws and conventions are binding agreements between countries to address climate change and environmental issues

a) Explain FIVE international treaties and conventions addressing climate change (10 Marks)

b) Describe FIVE challenges experienced in enforcing environmental laws and policies (10 Marks)