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052106T4ENS

ENVIRONMENTAL SCIENCE LEVEL 6

ENV/OS/SCI/CC/01/6

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Conduct Project Research

November/December 2025

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

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WRITTEN ASSESSMENT

Time: 3 HOURS

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INSTRUCTIONS TO CANDIDATE

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1. The paper consists of **TWO** sections: **A** and **B**.

2. Answer **ALL** questions in section A and any **THREE (3)** questions in section B.

3. Marks for each question are indicated in the brackets.

4. Candidates are provided with a separate answer booklet

5. Do not write on the question paper.

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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.

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1. Choosing a research project requires careful thought to ensure it is manageable, relevant, and contributes to knowledge. List FOUR factors to consider when selecting a research project. (4 Marks)
 2. Once data is collected, it must be presented clearly to allow for easy understanding and interpretation. State FOUR ways in which collected data can be presented in research. (4 Marks)
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 3. Data processing involves organizing and transforming raw information into meaningful form for analysis. Name FOUR ways in which data can be processed in research. (4 Marks)
 4. Literature review forms the backbone of a strong research foundation. Give FOUR reasons why conducting literature review is important. (4 Marks)
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 5. Data can be obtained from various sources depending on the nature of the research. Identify FOUR sources of data when conducting research. (4 Marks)
 6. Research objectives guide the direction of a study. They must be well-framed to ensure clarity and measurable outcomes. List FIVE characteristics of a good research objective. (5 Marks)
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 7. Research methodologies outline the overall approach and design used to collect, analyze, and interpret data. Name THREE research methodologies. (3 Marks)
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 8. Referencing acknowledges sources used in research, helps avoid plagiarism, and adds credibility to the work. Name FOUR styles of referencing used in research. (4 Marks)
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 9. Presenting a research report requires preparation to ensure clarity, professionalism, and proper communication of findings to the audience. State FOUR factors to consider before presenting a project research report. (4 Marks)
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 10. A researcher collecting data on student performance finds missing grades and duplicate entries, requiring data pre-processing before analysis. Give FOUR importance of data pre-processing. (4 Marks)

SECTION B (60 MARKS)

Answer Any THREE Questions in This Section

11. A project proposal is a formal document that outlines the plan for conducting a research or project. A well-prepared proposal ensures that the research is feasible, relevant, and contributes to solving real-world problems.

a) Describe FIVE contents of a research project proposal. (10 Marks)

b) Explain FIVE importance of a research project. (10 Marks)

12. Kim, a student at Tumaini College, recently conducted a research study on climate change. After successfully completing his research, he is now required to prepare and present a project report.

a) Explain FIVE contents that should be included in Kim's project report. (10 Marks)

b) Explain FIVE reasons why the preparation and presentation of Kim's project report are important. (10 Marks)

13. Environmental Science trainees at Bidii College undertook a research study on sustainable land management practices in Bungoma County. To successfully carry out their study, they needed to use different tools and materials to collect accurate and reliable data from the field..

a) Explain five materials that the trainees could use to effectively collect data during their study. (10 Marks)

b) Explain five significances of data collection in research. (10 Marks)

14. Qwetu college environment trainees carried out a research study on the impact of waste management practices in urban areas. After collecting raw data from households and municipal offices, they realized that the information needed to be processed, analyzed, and interpreted before meaningful conclusions could be drawn.

a) Describe FIVE steps involved in the analysis of data in research. (10 Marks)

b) Explain FIVE importance of data analysis in research. (10 Marks)

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