TEVETA

Technical Education, Vocational and Entrepreneurship Training Authority

DIPLOMA IN SCIENCE LABORATORY TECHNOLOGY

LEVEL 6 YEAR II EXAMINATIONS

FINAL INTEGRATED SUMMATIVE EXAMINATIONS

SITTING: NOVEMBER / DECEMBER 2025

SUBJECT: CONSTRUCTION MATERIAL TESTING (PRACTICAL)

TIME: THREE (3) HOURS **TOTAL MARKS: 100**

PASS MARK: 50

INSTRUCTIONS TO CANDIDATE

1. Write your Examination number and National Registration Card (NRC) number on the answer booklet provided. Ensure you append your signature in the space provided on the answer booklet.
2. Write the ANSWER SCRIPT SERIAL NUMBER on the examination register and on the entry slip.
3. This paper has one (1) question which carries one hundred (100) marks. Perform the task as per instruction
4. Diagrams may be used where necessary to clarify your answer.
5. Cell phone and programmable calculators are not allowed in the examination room

TASK: PLASTIC LIMIT TEST

During the construction of Ntumpa University in Kasama, it was realized that one section of the land was clogged with water with a low drainage into the soil. They subjected the soil to some Laboratory tests using the Laboratories at Mpika Road Development Offices,
The following below were the samples collected:

1. They collected 5 Kilograms from site A
2. Then collected 5 Kilograms from site B
3. And last collected 5 Kilograms from site C

TASK; Carry out the plastic limit test from an already prepared sample for all the Atterberg Limit test.

1. State the objective of the test. **[3 Marks]**
2. Prepare the sample of the test. **[10 Marks]**
3. Outline the test procedure for Plastic Limit test. **[57 Marks]**
4. Determine the Plastic Limit for any of the samples by using 50 grams of the test sample. Indicate from which sample you collected your test sample. **[30 Marks]**

Total marks 100