TEVETA

Technical Education, Vocational and Entrepreneurship Training Authority

DIPLOMA IN SCIENCE LABORATORY TECHNOLOGY

LEVEL 6 YEAR I EXAMINATIONS

FINAL INTEGRATED SUMMATIVE EXAMINATIONS

SITTING: JULY AUGUST 2026

SUBJECT: FOUNDATION BIOLOGY PRACTICAL

TIME: ONE (1) HOUR **TOTAL MARKS: 100**

INSTRUCTIONS TO CANDIDATE **PASS MARK: 50**

1. Write your Examination number and National Registration Card (NRC) number on the Marking Guide provided.
2. This paper has one (1) task. Perform the task according to the procedure given.
3. Cell phone and programmable calculators are not allowed in the examination room.

DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD TO DO SO

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Task

(i) Scrap off the epidermis of the inner surface from one of the freshy storage leaves of an onion bulb with a scapel and then tearing back a single layer of cells with forceps or fingers.

(ii) Place the epidermal strip on the glass slide and add three drops of distilled water.

(iii) Add a drop of methylene blue/iodine onto the slide with epidermal cells.

(iv) Blot dry the excess dye on the slide using a blotting paper.

(v) Use the microscope to focus the image of the slide preparation at X40.

(vi) Call the examiner to inspect your slide. **[6 marks]**

(vii) Draw and label your observation. **[6 marks]**

(viii) State the magnification. **[2 marks]**

(ix) State three (3) precautions when conducting this practical. **[6 marks]**

TOTAL MARKS: 20