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BIOLOGY Paper 2 July/August 2024 2 Hours



TORORO ARCHDIOCESE EXAMINATION BOARD

Uganda Certificate of Education MOCK EXAMINATIONS 2024 BIOLOGY PRACTICAL PAPER 2

2 Hours

INSTRUCTIONS TO CANDIDATES

This paper consists of two examination items.

Answer all the items in the spaces provided.

Drawings should be made in the spaces provided.

Use sharp pencils for your drawings. Coloured pencils or crayons should not be used.

No additional sheets of writing paper are to be inserted in the booklet.

Work on additional sheets will not be scored.

Turn Over

Item 1.

Alicia is a vegetable vendor in Tororo market. She sells green leafy vegetables and has many customers since her vegetables are always fresh because she keeps them dipped in water. However, one day she dipped her vegetables in two separatewater samples A and B collected from two different sources. After 30 minutes, she observed that the leaves of vegetables in one of the water samples werebending downwards and rolledwhile the ones in the other sample the leaves were upward and not rolled. This affected her sales that day since most customers did not buy the vegetables with rolledand bent leaves considering them not fresh.

You are provided with plant organ X whose tissues are similar to those of the vegetables, and water samples A and B that Alicia used.

Task.

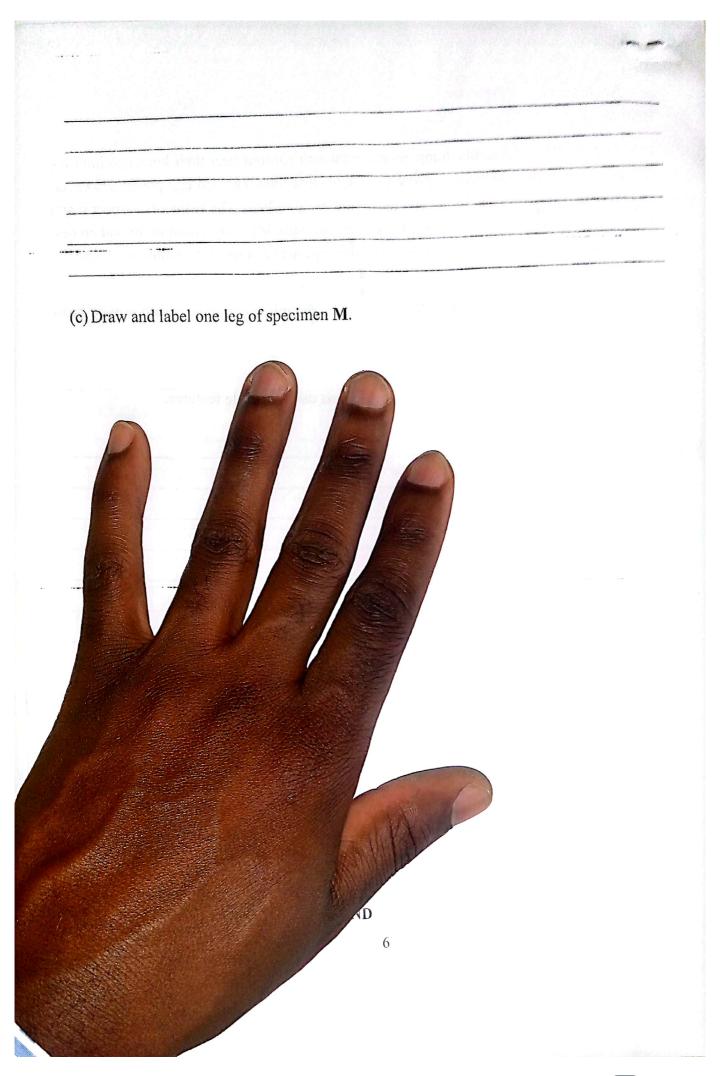
Carryout a scientific investigation to determine the effect of water samples A and tissue of plant organ V and water samples A.	B on the
tissue of plant organ X, and use your results to advise Alicia.	

Item 2

In a certain village, residents dump animal wastes in gardens near their homes to improve the fertility in order for them to grow vegetables like tomatoes and egg plants. However, an outbreak of cholera has been reported in the same village. The residents suspect that a certain organism is responsible for the outbreak because it is very common in and around most homes. They decided to spray and kill the organism as one of the solutions to end the outbreak.

You are provided with specimen M which is the organism common in and around most homes.

(a) Classify the specimen into its phylum and class using suitable features.
(b) Explain how the structural adaptations of the specimen makes it responsible for the outbreak.



20 cm³ of distilled water labelled A
20 cm³ of 20 Nacl sodium Chloride labelled B
Thefaned by dissolving 200 of table salt in Distilled
water took to make look of soln.

Fresh medium Sized Inih potato labelled X
Fresh willed homefly labelled Specimen - M
Access to:

Reagents for food test

Head lans

2 measuring cylinder of eithe lom/25/50ml

5 fest tubes

test tube helder

test tube rece

dropper

cock borrer

A knife/razor

petridishes

labels

Stock clock