

Name
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BIOLOGY
Paper 3
JULY/AUG 2024
2 ½ hours

ASSHU ANKOLE JOINT MOCK EXAMINATIONS 2024

Uganda Certificate of Education

BIOLOGY

Paper 3

Practical

2 hours 30 minutes

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.

For Examiner's use only		
Item	Score	Examiner's initials
1		
2		
Total		

Item 1

Item 1

Mercy runs a flora decoration business. She transports her flowers regularly in water to keep them fresh. During a dry season when water was scarce, Mercy bought two jerrycans of water from a supplier whose source she does not know. While transporting her flowers, she noticed that 40 minutes later, half of the flowers had wilted with weak stems, while the other flowers remained with strong stems. Mercy is wondering what could have caused her flowers to behave like this.

You are provided with specimen G which has similar tissues as those in the stems of flowers, A and B which are samples of water from the two jerrycans Mercy used for watering.

Task:

Carryout a scientific investigation on the water samples A and B and give Mercy a detailed explanation.

This image shows a single sheet of white paper with horizontal dotted lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

Item 2

Jacob grazes goats on a large sloping farm. One day he noticed that one of his goats could not stand and was unable to move. His neighbor said that the slope might have caused the goat to fall and break some of its bones. The goat later became very ill and was slaughtered. Some bones were collected from it.

Specimens R, Q and T are bones collected from the goat.

Tasks:

- a) Using observable features, identify the specimens R, Q and T

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- b) Describe the features on specimen Q that enable it to keep the goat upright?

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- c) Draw and label the specimen that was obtained from the neck region of the goat.

END