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Biology

Paper 2

July - August 2024

2 ½ Hours



UGANDA MUSLIM TEACHERS' ASSOCIATION

UMTA JOINT MOCK EXAMINATIONS-2024

UGANDA CERTIFICATE OF EDUCATION

Biology

Paper 2

2 hours 30 minutes

NAME.....INDEX NO.....

SCHOOL.....SIGN.....

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.*

Item 1.

James and Joseph are preparing their garden for planting beans. While digging, James observed many living organisms in the soil of his garden, Joseph did not see any living organisms. They planted their beans and at harvest time, James got **two** bags of beans while Joseph got only **one** basin yet their gardens are of the same size. A factory near Joseph's Garden was once seen dumping some wastes in the environment. Joseph is wondering how James managed to get such good yields than him.

You have been provided with soil sample **R** collected from Jame's Garden and sample **M** from Joseph's Garden.

Task:

Design and carryout a scientific investigation(s) on the soil samples provided and use the results to help Joseph understand the cause of his poor yields, Jame's good harvest and advise him accordingly.

Item 2.

Amina has a book shelf at home, she is disturbed by one animal that keeps destroying her books. She does not want to use any chemical to destroy them so she decided to be killing them one by one using an object. Amina is finding it difficult to get rid of the animals as they keep hiding between the books. You have been provided with Specimen **H** which is the animal in Amina's book shelf.

Task:

- (a) Using observable features, identify Specimen **H**.

- (b) Explain how Specimen **H** is able to destroy the books and hide in between the closely packed books.

- (c) Draw and label **one** of the legs on the last segment of the thorax next to the abdomen.