

Candidate's Name:

Signature:

| Random No. | | | | | | Personal No. | | |
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| | | | | | | | | |

(Do not write you School/ Centre Name or Number anywhere on this Booklet.)

553/2

BIOLOGY

Paper 2

2024

2½ hours

EXTERNAL FACILITATION EXAMINATION

Uganda Certificate of Education

BIOLOGY

Paper 2

Practical

2 hours 30 minutes

INSTRUCTIOS 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. Colored 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.

During a parliamentary session, one MP suggested to government to burn early childhood education for children below six years. He urged that the meals served to such children lack the required nutrient to support proper growth and boost immunity. The ministry of health has collected food mixtures; M and Q as a sample taken from meals of various schools in the MP's constituency.

Task:

Carry out investigations on food mixtures M and Q and make specific recommendations to the ministry.

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Item2.

Kawempe is a slum which is faced with a problem of poor waste disposal. The poorly disposed wastes attract a number of living organisms some of which are vectors for deadly human diseases. Recently there was a cholera outbreak whose spread was attributed to one of the common living organisms cited around the poorly disposed wastes. During a survey, the ministry of health collected specimens W, X, Y and Z, which were sent to the department of Entomology for analysis and advice.

Task:

- With the help of a hand lens, analyze the specimens provided and classify them up to the least shared taxonomic level, giving reasons for each level. Using observable features on the head region of the specimens, construct an appropriate key to identify each specimen.
- Draw and label the hind limb of the specimen responsible for the spread of cholera in Kawempe.

[illegible]

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