

NAME:.....

SIGNATURE:..... STUDENT NUMBER.....

553/2

BIOLOGY PAPER 2

(PRACTICAL)

OCT/NOV 2023

2 HOURS

UGANDA CERTIFICATE OF LOWER SECONDARY EDUCATION**COMPETENCE BASED END OF YEAR ASSESMENT****SENIOR THREE****BIOLOGY PRACTICAL****TIME: 2 HOURS*****Instructions to candidates:***

- *This paper consists of two items.*
- *Attempt both items*
- *Answers should be written in the booklets provided*
- *Your work should be clearly presented and tidy. Dirty work will lead to loss of marks*

FOR EXAMINERS' USE ONLY

ITEM	TOTAL MARKS	ACTUAL MARKS
1	30	
2	30	
TOTAL	60	

ITEM ONE (30 marks)

You went back to your village during the Christmas holidays and your grandmother tells you about your neighbor's child who almost died a few weeks ago. She adds that the child was so small, and had failed to grow, she had scanty hair and a scaly skin. However, at the hospital, they started feeding her on some food formula and she became well within three weeks without taking any medicine. Her skin started getting better and she was continuously gaining weight and looking better. As a student of biology, this intrigues you and you want to find out more about what was in the food formula that made the child get better without medication. You acquire some of the food formula and you ask the village government school's permission to use their lab for which you are allowed. However, the headteacher of the school demands a report of the activities you will carry out in his Lab. Design an experiment you will carry out to find the food substances present in the food formula and record your results in a report to present to the headteacher.

Your experiment planning should include the following aspects.

- Aim of the experiment
- Hypothesis
- Materials and apparatus used
- Procedure
- Presentation of results
- Conclusion

ITEM TWO (30marks)

During a science trip at your school, you manage to trap some specimens by yourself. Due to the limited time in the field, you don't manage to identify the specimens but you label them A, B, C, and D. Classify the specimens using biological principles and prepare a report to present in the next biology class as required by the teacher. The teacher requires you to classify the specimens in their kingdom, phylum, and class. Include the reasons for putting the specimens in each taxon. The teacher also demands that you note some characteristics on the specimens and prepare an identification key for easy identification of the specimens during the lesson.

Advance information.

Food formula is a mixture of

- 5% starch solution (solution should be heated to 60°C and filtered).
- 1% egg albumin. (Solution should be heated to 60°C and filtered).
- 1 undiluted ripe orange juice

- A. Blow fly
- B. Cockroach
- C. Soldier termite
- D. Honey bee