

**NAME OF A LEARNER.....**

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**553/2**

**BIOLOGY PAPER 2**

**(PRACTICAL)**

**NOVEMBER.2023**

**2 HOURS**



**SHAPTA JOINT ASSESSMENT BOARD**

**Uganda Certificate of Lower Secondary Education**

**BIOLOGY**

**PAPER 2**

**SENIOR THREE**

**TIME: 2HRS**

**INSTRUCTIONS TO LEARNERS:**

- This paper consists of two items.
- Your work should be clearly presented and tidy

1. 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 learner 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 laboratory for which you are allowed. However, the head teacher of the school demands a report of the activities you will carry out in his Laboratory.

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 head teacher. Your experiment planning should include the following aspects.

Aim of the experiment

Hypothesis

Materials and apparatus used

Procedure

Presentation of results

Conclusion

2. 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 facilitator requires you to classify the specimens in their kingdom, phylum, and class. Include the reasons for putting the specimens in each taxon. The facilitator 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 600C and filtered).

1% egg albumin. (Solution should be heated to 600C and filtered).

1 undiluted ripe orange juice

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



**END**