Name:	Stream
553/2	
BIOLOGY	
Paper 2	
PRACTICAL 2024	

INTERNAL MOCK EXAMINATIONS 2024 BIOLOGY (PRACTICAL)

Paper 2

2 hours

INSTRUCTIONS:

Answer all the items in the spaces provided.

Candidates are advised to read the questions carefully, organize their answers and present them precisely and logically, where applicable drawings should be made using a sharp pencil, colored pencils and crayons should not be used.

Item 1:

Saif food industries ltd in Uganda wants to produce a new snack made from cassava. They are to first make the cassava in the snack sweet and ready to be absorbed into the body. Solution Q contains an enzyme that can break down the polysaccharides in cassava making it sweet and easy to absorb. However, Q works best under ideal conditions which must be monitored during processing stages.

You are provided with solution Q and Cassava extract labelled solution T.

Tou are provided with solution Q and Cassava extract labelled solution 1.			
Task:			
Carry out an investigation to determine the ideal pH for enzyme Q and make appropriate			
recommendations to Saif food industries ltd.			

Item 2:
Many people grow some crops near their homes. However, due to ignorance, their
children remove some of the plant parts resulting into poor yields.
You are provided with specimens A, B, C and D which are the parts found with the
children.
Task
(a) Using external observable features, how are the children's actions likely to affect
the plant growth and species survival?
(b) How can the specimens provided be identified using a dichotomous key.

(c)	Cut open specimen A longitudinally, draw and label one part of the specimen.

S.4 INTERNAL MOCK

Practical instructions

Each learner should be provided with.

Item 1:

10 cm³ of 2% amylase solution labelled as Q

10 cm³ of 1% starch solution labelled as T

Hot water

4 cm³ of sodium hydroxide

4 cm³ of hydrochloric acid

Item 2:

Specimen A: Morning glory

Specimen B: Maize leaf

Specimen C: Cabbage leaf

Specimen D: Hibiscus flower

Other materials:

Thermometer

5 test tubes

2 plastic beakers

1 test tube rack

Source of heat

Sodium hydroxide

Hydrochloric acid

Iodine solution

Benedict's solution