Name	
Index number	
Signature	
P553/3	
Biology practical	
Paper 3	peas
August 2023	SMARTAID SCHOOLS IN AFRICA

## PEAS NETWORK MOCK EXAMINATIONS UGANDA CERTIFICATE OF EDUCATION BIOLOGY PRACTICAL PAPER 3 2 HOURS

## **Instructions to candidates:**

- ❖ Answer all questions
- Drawings should be made in spaces provided.
- Use sharp pencils for your drawings.
- ❖ No additional sheets of writing paper are to be inserted in the booklet.

## FOR EXAMINERS USE ONLY.

QUESTION	MARKS	EXAMINERS SIGNATURE
1		
2		
3		
TOTAL		

1. You are provided with solution A and B which contain food nutrients. Carry out the following tests to identify the food nutrients contained in A and B.(10 Marks) a)

Tests	Observation	Deductions
(i)To 1cm <sup>3</sup> of A in a test tube		
add 2 drops of iodine		
solution.		
(ii)To 1 cm <sup>3</sup> of Ain a test		
tube, add 1cm <sup>3</sup> of sodium		
hydroxide followed by 2		
drops of copper (ii) sulphate.		
2		
(iii)To 1 cm <sup>3</sup> of B in a test		
tube, add 1cm <sup>3</sup> of benedict's solution and boil.		
Solution and bon.		
(iv)To 1 cm <sup>3</sup> of DCPIP in a		
test tube, add drop by drop of		
solution B until no further		
change.		

b) (i) state four natural sources of the food nutrients in A (2 marks)
C) (i) state the function(s) of the food nutrients in ;( 6 marks)
(i) A
(ii)B
d) State two deficiency symptoms common on individuals lacking the food nutrients found in solution B (2 marks)

2. You are provided with specimen Q and R observe the specimens and answer the questions that follow. (3 marks)
a) (i) which part of the plant were specimens Q and R obtained.
(ii) Give three reasons for your answer in (a) (i) above.
(b)(i) Identify specimen Q (1 mark)
(ii) Using observable features, give three reasons for your answer in b) (i) above. (3 marks)

(C) On the basis of identifying the features, state three functions both specimens Q and R can perform on the plants they were obtained. (6 marks)
Function 1
Feature
Function 2
Feature
Function 3
Feature

d) Make a well labelled drawing of specimen Q .state your magnification. (7 marks)
3. You are provided with specimen X and Y that are animals. Examine each specimen using a hand lens and answer the questions that follow.
(a)(i) State the phylum of the specimens giving reasons.
Phylum
Reasons
(ii) State the class of each specimen giving two reasons in each case.  Class of X
Reasons
Class of Y

Reasons	
b) State the three structural differences between	specimens X and Y (3 marks)
Specimen X	Specimen Y
(C) (i) specimen Y is a parasite. Using observab parasite (2 marks)	ele features, state whether it is an endo or ecto
Reasons;	
("\ 0; , , , 1	. 1. 2
(ii) State three ways in which specimen Y is ada	pted to its parasitic life. (3 marks)
d) (i) state two roles performed by specimen X is	n its habitat. (2 marks)

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(ii) Cut off one hind limb of specimen X, make a drawing from femur up to the claw. Do not label. State your magnification. (4 marks)

**END**