NAME:..... STREAM:.....

SIGNATURE:.....

553/2
Biology
Practical
Paper 2
2hours

Uganda Certificate of Education
PRE - MOCK EXAMINATION
BIOLOGY PRACTICAL
PAPER 2
2 HOURS

Instructions to Candidates;

- *Answer allquestions.*
- *Drawings should be made in the spaces provided.*
- *Use sharp pencils for your drawings.*
- *Work on additional sheets will not be marked.*

FOR EXAMINER'S USE ONLY.

Question	**Marks**	**Examiner's signature**
1		
2		
3		
Total		

1. You are provided with solution M and N. Solution M contains food nutrients. You are required to determine the food nutrients in solution M an investigate the action of solution N on M.

a) Carry out tests on solution M to identify the food nutrients. Record your tests, observations and deductions I the table below.

TESTS	**OBSERVATIONS**	**DEDUCTIONS**
i) **Iodine test**		
ii) **Benedict's test**		
iii) **Test for proteins**		
iv) **Vitamin C test**		

b) Add 1cm^3 of solution M to 1cm^3 of solution N in a test tube. Incubate in a water bath maintained at 35 – 40^{0}C for 30minutes. After 30 minutes, remove the test tube and carry out a Benedict's test on the mixture. Record your name of test, observation and deduction in the table below. (4marks)

NAME OF TEST	**OBSERVATIONS**	**DEDUCTIONS**

c) Explain your results in (b) (1 ½ marks)

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d) Giving a reason, suggest the identity of the active ingredient in solution N.
(1½ marks)

Identity ……

Reason ……

……

2. You are provided with specimens, **P, Q** and **S**. Open up **P**and **S** longitudinally

a) Giving a reason in each case, state the type of fruit each specimen is. (6marks)

i) Specimen P

Reason .....

.....

ii) Specimen Q

Reason .....

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iii) Specimen S

Reason .....

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b) i) State the mode of dispersal for specimen P. (1mark)

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ii) Describe how each specimen is dispersed. (6marks)

P .....

.....

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Q .....

.....

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S .....

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c) Draw and label a longitudinal section of P. State your magnification.
(7marks)

3. You are provided with specimens X, Y and Z. Examine them carefully and use them to answer the following questions.

a) Identify each of the specimens giving reasons for your identity in each case.
(4½ marks)

i) X .....

Reasons .....

.....

.....

ii) Y .....

Reasons .....

.....

.....

b) From which region of the body is each specimen obtained. (1½ marks)

X .....

Y .....

Z .....

c) State 2 adaptations of each of the specimens to its functions. (6marks)

Specimen X .....

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Specimen Y .....

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Specimen Z .....

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d) Give 3 structural differences between specimen X and Y. (3marks)

X	Y
i)	
ii)	
iii)	

e) Draw and label the posterior view of specimen X in the space provided.

(5marks)

END