Name:	Index No	
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553/3		
Biology practical		
Paper 3		
July/August 2019		

BUGANDA EXAMINATIONS COUNCIL MOCKS

Uganda Certificate of Education

BIOLOGY PRACTICAL

PAPER 3

2HOURS

INSTRUCTIONS TO CANDIDATES

- o Answer all questions in the spaces provided.
- o All drawings must be made in the spaces provided.
- o Drawings should be made with a sharp pencil.

NO.	MARKS	SIGNATURE
1		
2		
3		
TOTAL		

- 1. You are provided with solution B and C.
- (a) Carryout the test on solution B in table 1 below to establish the chemical nature of solution B.

Table 1 (8½marks)

TEST	OBSERVATION	CONCLUSION
To 1cm ³ of solution B add		
2 drops of iodine solution		
To 1cm ³ of solution B add		
1cm3 of Benedict's		
solution and boil.		
To 2cm ³ of solution B add		
1cm ³ of sodium		
hydroxide solution		
followed by 2 drops of		
copper II sulphate.		

(b) Obtain 3 test tubes, label them 1, 2, 3. Pour 2cm³ of solution **B** to all test tubes then to;

Test tube 1 add 2cm³ of solution C

Test tube 2 add 1cm3 of solution C

Test tube 3 add 0.5cm³ of solution C

Incubate all test tubes at 35 – 40°C for five minutes. Carryout Benedict's test on all test tubes.

Record your observation and conclusion in the table II below.

Table II (08marks)

Benedict's test	Test tube	Observation	Conclusion
To 1cm ³ of solution add	1		
1cm ³ of Benedict's and			
boil.			
	2		
	3		

(c)(1)	With a reason identify the nature of solution C.	(02marks)
	Reason:	
(ii)	Suggest an explanation for the difference in the conclusion made between 1 and 3.	een test tubes (02marks)
	Test tube 1:	
	Test tube 3:	

You are provided with specimens G and H .		
With reason identify the organ of the plant the specimens represent. Organ		
and outline differen	ces between the two specin	
		(04marks)
G	Н	
	e organ of the plant t	e organ of the plant the specimens represent.

(c)	From the structure of the pistil and stamens suggest the type of pollinat more likely to occur in specimen H . Explain your answer.	ion which is (03marks)
(d)	Describe how specimen ${\bf G}$ is adopted to its agent of pollination.	(03marks)
	Agent :	
	Adaptation:	
(e)	Describe the epicalyx of specimen G .	(02marks)
(f)	Cut specimen H longitudinally.	
	Draw and label one half of the pistil of specimen H .	(05marks)

3.	You are provided with specimens ${f Q}$ and ${f T}$ which belong to the same class.		
(a)	Giving three reasons, state the class of spe	ecimen T .	(04marks)
	Class:		
	Reason:		
(b)	Using a hand lens, observe specimen T . S specimen T is suited to the habitat of the		e abdomen of (04marks)
(c)	Observe the thorax of both specimens and between the specimens?	d state three structural diffe	rences (03marks)
	Specimen Q	Specimen T	

(d)	From your observation of specimen T , state features which make the good vector.	ne specimen a (02marks)	
(e)	In the space below, draw and label the abdomen of specimen T from the ventral		
	view. State the magnification of the drawing.	(7marks)	

END