

RESOURCEFUL MOCK 2017

Uganda Certificate of Education BIOLOGY PAPER 2 TIME: 2 HOURS

Instructions

Attempt all questions

1. You are provided with material C, peel it and cut four equal cubes each measuring 1cm x 1cm x 1cm. Label 4 test as 1, 2, 3, 4. Add 3cm3 of hydrogen peroxide to test tubes 1, 2, 3, distilled water to test tube 4. Carryout the test on cubes following the instruction in the following table. Record your observation and deduction in the table below. [8mks]

Tests	Observation	Deduction
i) To test tube 1 add one whole cube		
ii) To test tube 2 add one cube after cutting it into 16 equal parts.		
iii) To test tube 3 add whole cube after boiling it for 10 minutes.		
To test tube 4 add one whole cube.		

b) i. What was being investigated in the tests?	[4mks]
ii. Explain your results in each test tube	[4mks]
Test tube 1	

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Yo	u are provided with specimen M and N v	which are fru	its.	
a.	State the observable features on the sp	pecimen to s	uggest tha	t they are fru [2mks]
				•••••
b.	State the type of fruit each specimen is, i) M			
	ii) N Reasons			
	110400110			
 C.	Cut both specimens transversely, e			and state f
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e.	Descr	ribe how the seeds are	attached to the placen	ta in each specimen.	
	i)	M			
	•				
	,				
	•••••				•••
f.	Draw	and label a transver	se section of specime	n M in the space provide	d.
	State	your magnification.		[6mks]	

- 3. You are provided with specimen S and T which belong to the same class.
 - a. Giving three reasons, state the phylum of the specimens.

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	Phylum				
	Reasons				
b.	Using a hand lens, observe specimen T	. State how the structure of the head of			
	T is suited for the habitant in which the	e specimen lives.			
c.	Observe the thorax of both specimen S and T and state the structural differences between the thorax of the specimens.				
	S	Т			
Ų.					
d.	From your observation of specimen S, state the structural characteristic				
	which make the specimen suitable as a vector.				
e.	In the space provided, draw and label the thorax of specimen S from the				
	dorsal view. State the magnification of				



END