NAME	 INDEX NO.	
SCHOOL	 SIGNATURE	
	DATE	

231/3
BIOLOGY
Paper 3
(PRACTICAL)
July/August, 2015
TIME: 1¾ HOURS

MUTOMO SUB-COUNTY KCSE PACESETTER, 2015

Kenya Certificate of Secondary Education (K.C.S.E)

BIOLOGY

Paper 3

(PRACTICAL)

TIME: 134 HOURS

INSTRUCTIONS TO CANDIDATES

- 1. Write your name, school and index number in the spaces provided above.
- **2.** Write the date of examination and sign in the spaces provided above.
- **3.** You are required to spend the first 15 minutes of the 1¾ allowed for this paper reading the whole paper carefully before commencing your work.
- **4.** Answer **all** the questions in spaces provided.
- **5.** Additional pages must not be inserted.
- **6.** Candidates may be penalized for recording irrelevant information and for incorrect spellings especially of technical terms.
- 7. This paper consists of 6 printed pages.
- **8.** Candidates should check to ensure that all pages are printed as indicated and no questions are missing.

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QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	10	
2	16	
3	14	
TOTAL SCORE	40	

1. You are provided with substances labelled M, N, Q, X, Y and Z. Q is a food substance, while M is 10% sodium hydroxide, N is 1% copper (II) sulphate, X is dilute hydrochloric acid, Y is dilute sodium hydrogen carbonate and Z is Benedict's solution.

Carry out food tests to determine the food substances present in Q.

(10 marks)

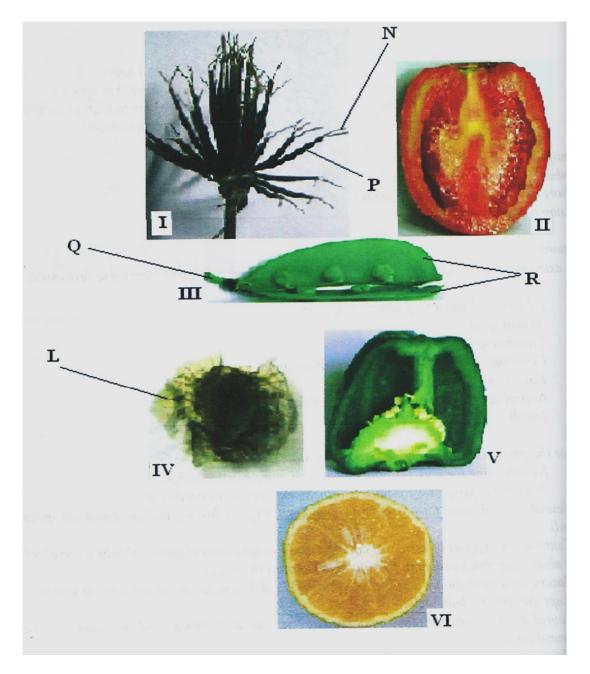
Food substance	Procedure	Observations	Conclusion

You are provided with specimen la	ou are provided with specimen labelled M and N, examine them.			
Identify the specimens and in each	case give two reasons for your answer.			
Specimen M		(1 mark)		
Reasons		(2 marks)		
Specimen N		(1 mark)		
Specimen iv		(1 mark)		
Reasons		(2 marks)		
State three ways in which specime	en N is adapted to its functions.	(3 marks)		
State four differences between spe	cimen M and N.	(4 marks		
N	M			

d) Draw and label the anterior view of the specimen N.

(3 marks)

3. Below are photographs labelled I, II, III, IV, VI and VII of fruits obtained from different plants. Examine them and answer the questions that follow.



With reasons determine	the modes of dispersal for the fruits labelled I, III and IV.	(6 marks)
I		
Mode of dispersal		
Reasons		
III		
Mode of dispersal		
Reasons		

a)

	IV	
	Mode of dispersal	
	Reasons	
b)	State the type of placentation in III, V and VI.	(3 marks)
	III	
	V	
	VI	
c)	Name the parts labelled:	(3 marks)
	N	
	P	
	Q	
d)	What is the function of the part labelled L?	(1 mark)
ŕ	•	. ,
e)	How is the part labelled R adapted to its function?	(1 mark)
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