NAME	And the second	DATE	
INDEX NO		SIGNATURE	
231/3 BIOLOGY PAPER 3 (PRACTICAL) TIME: 13/4 HOURS.	Jisix word. Eteeke		

MBOONI WEST SUB - COUNTY JOINT EVALUATION TEST, 2014

Kenya Certificate of Secondary Education

231/3. PAPER 3
(PRACTICAL)
JULY/AUGUST 2014
TIME: 1¾ HOURS.

INSTRUCTIONS TO CANDIDATES

- o Answer **all** the questions.
- O You are required to spend the first 15 minutes of the 1¾ hours allowed for the paper reading the whole paper carefully before commencing your work.
- o Answers must be written in the spaces provided in the question paper.
- o Additional pages must not be inserted.
- o This paper consists of 4 printed pages. Candidates should check to ensure that all pages are printed as indicated and no questions are missing

FOR EXAMINER'S USE ONLY

Maximum score	Candidate's score
16	
12	
12	
40	
	16 12 12

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231/3
Biology
Paper 3 (practical)

- 1. You are provided five with potato cylinders each measuring 5cm long, liquid S_1 and S_2 , Hydrogen Peroxide, dilute Hydrochloric Acid, and test tubes labeled A,B and C.
- a) i) Place one cylinder in a beaker containing liquid labeled S_1 and another in the liquid labeled S_2 . Allow to stand for 30 minutes, then move the cylinders, wipe them dry using blotting paper. Measure each cylinder in centimeters and record their length and texture in the table given below. (4 marks)

CYLINDER	LENGTH IN CM	TEXTURE
LIQUID S ₁		
LIQUID S ₂		
LIQUID S ₂		

ii) Account for the results obtained in a (i) above	(4marks)
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Heine a coolinal out one of the evilinders into 5 newto each one continuates land	
Using a scalpel cut one of the cylinders into 5 parts each one centimeter long. tube A. Crush the other two using mortar and pestle into a paste. Divide the p Put one lot into test tube B and the other into test tube C.	-
To each of the test tubes A and B add 2cm ³ of hydrogen peroxide and to test	tube C add 1 cm ³ of dilute
Hydrochloric Acid, then 2cm ³ of hydrogen peroxide. Record your observation	n below. (3marks)
Test tube A	
Test tube B	
Test tube C	
(ii) Write a word equation for the reaction that occurs in the test tubes	(1mark)
(iii)Account for the rate of reaction in test tube A, B and C.	(4 marks)
A	,

Mbooni west joint examination $2 \mid P \text{ a g e}$

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		and the second s	231/3 biology paper 3
	В	Visik with telepastrage.	•••••••
	•••		
	••••		
		×	
	С		
	••••		
	••••		
2.	fol	e diagrams below represents plants, K,L and M. study them carefully and answer the q	
	SE	E PHOTOGRAPHS ATTACHED	
çe	a)	Giving a reason in each case, classify each plant into its division. K	(4 marks)
	•••		
		L	
	•••		
	b)	Using observable features only, state the subdivision of plant M	(2marks)
	•••		
	•••		•••••
	c)	Identify the parts labeled P,U,V & Y	
		P	
	••••	U	•••••
	•••		
		v	
	••••	Υ	
	• • • •		
	d)	State the functions of part T and state why (d) grows in wet areas.	(2 marks)
	•••		

3 | P a g e Mbooni west joint examination

	3.	You are provided with photograph L. K and J. Examine them.	
		You are provided with photograph L, K and J. Examine them. SEE PHOTOGRAPHS ATTACHED	
		Using observable features only, state class of animals shown in the photograph L and K.	(1 mortes)
	a)		(4 marks)
		L str	
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		\sim	
		K gast	
	•••	7. × × · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •
		K QQ	
	_	Reason	
	~ ·	, 	
40re			
			(3 marks)
(b)		On the photograph J name the parts labeled E, F and G.	(3 marks)
	E		
	• • •		
	F		
	G		
	Ü		
	•••		
	(11)	State the functions of the structures labeled H in photograph J.	(2marks)
	•••		
- \	···		• • • • • • • • • • • • • • • • • • • •
c)	(1)	The actual length of animal J in cm is shown by a section of the ruler in the photograph.	
		Calculate the tail power (show your working)	
	(;;)	State the significance of tail power the life of fish in water	(1morts)
	(11)	State the significance of tail power the life of fish in water.	(1mark)
	•••		

Mbooni west joint examination 4 | P a g e