Name.......Index Number......

Student's Signature......

231/2
BIOLOGY
PAPER 3
PRACTICAL
JULY/AUG, 2014
1 hr. 45 Mins

# **BUSIA COUNTY JOINT EXAMINATION-2014**

Kenya Certificate of Secondary Education BIOLOGY

Paper 3

**Practical** 

TIME: 1hr. 45 mins.

#### **FOR EXAMINER'S USE ONLY**

QUESTION	MAXIMUM SCORE	STUDENT SCORE
1	15	
2	14	
3	11	
TOTAL	40	

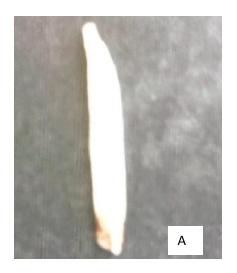
## Question 1 (15 marks)

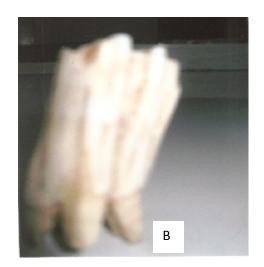
1.	You ar	re provided with a specimen labelled ${f Q}$ and hydrogen peroxide.	
	(a)(i)	What part of plant is specimen <b>Q</b> ?	(1 mark)
	(ii)	ctive a reason for your answer.	(1 mark)
re free kosti	(b)	Cut two equal cubes whose sides are about 1cm from specimen Place one of the cubes into a boiling tube labelled A. Crush the cube using a mortar and pestle. Place the crushed material in a boiling tube labelled B. To each boiling tube add 4ml hydroge (i) Record your observations.	n <b>Q</b> . other another
		(ii) Account for your results in (c) (i) above.	(2 marks)
	(d)	Peel half of specimen ${\bf Q}$ and crush in a mortar. Use the reagents provided to test for the various food substances in the extract obtained from the crushed material.	
		Record the procedures, observations and conclusions in the ta	
			(9 marks)

Food Substance	Procedure	Observations	Conclusions
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400	\$. \$.		
, by	Procedure		
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Rati			
5			

### Question 2 (13 marks)

2. The photograph below shows a tooth from a carnivore and tooth from a herbivore.





(a) Which tooth is from a carnivore and which tooth is from a herbivore?

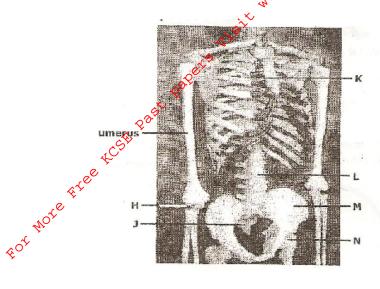
From a carnivore - (4 marks)

		Reason -	
		6.7e	
		From a herbivore –	
	,0 <sup>0</sup>	Béason -	
	oast t		
pote free Acti	(b)	Identity the type of teeth shown by the photograph B.  Type -	(1 mark)
√6 € <sub>2</sub> ,		Type -	(1 mark)
Î <sub>O</sub> ,		Reason -	(2 marks)
	(c)	State the functions of the tooth B shown. Give reasons for your Functions -	answer. (2 marks)
		Reasons -	(2 marks)
	(d)	Distinguish between homodont and heterodont teeth.	(1 marks)
	(e)	Explain any two general adaptations of tooth to its functions.	(2 marks)

# Question 3 (12 Marks)

ion 3 (12 Marks)

The diagram below shows part of a mammalian skeleton, Study it and use it to 3. answer the questions that follow.



(a)	Name each of the parts of the skeleton marked H, J, K and N.	
(b) (i)	Name each of the parts of the human skeleton described below. The part on which the anterior portion of N articulates.	(1 mark)
(ii)	The three bones that together fuse to form bone M.	(1mark)

(c)	State any <b>two</b> adaptations of each of the following structures:	
	Structure M	(2 marks)
	Taly.	
	$\mathcal{A}_{\lambda}$	
(ii)	Structure L	(2 marks)
20th		
105th		
ote free test past		
o <sup>ce</sup> (d)	On the diagram label each of the following parts using the lette	rs in brackets
(i)	the pubis symphysis (P).	(1 mark)
(ii)	the part where intercostals muscles attach (I)	(1 mark)
ſiii	) a joint that can turn through $180^{\circ}$ only.	(1 mark)