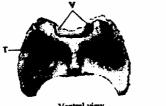
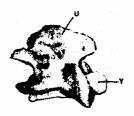
THE KENYA NATIONAL EXAMINATIONS COUNCIL Kenya Certificate of Secondary Education Biology Paper 3 Practical 2006 The photographs below are of bones obtained from the same region of a mammalian body.
Photographs labelled K are different views of the same bone while M and N are views of different bones.



Posterior view

Bone K



Bone M



Posterior vlew Bone N

- (a) Name the region from which the bones were obtained.
- (I mark)

(b) Identify the bones.

(3 marks)

M

N

- (c) State three characteristic features of the bone in photographs labelled K. (3 marks)
- (d) Name the structures that fit in the opening labelled P in the photographs of bone K. (2 marks)
- (e) State the functions of the parts labelled S and T in photographs of bone K. (2 marks)
- (f) Name the structures that articulate with the parts labelled V in the photographs of bone K. (1 mark)

	(t		lame the parts labelled U and Yain the photograph of bone M and hotograph of bone N.	R in the (3 marks)	
2.	2. You are provided with two pieces of plant material labelled specimen D. scalpel cut a slit halfway through the middle of each piece as shown in the diagram below.				
			Line of cut		
		Place one piece in the solution labelled $L_1$ and the other in solution labelled $L_2$ . Allow the set up to stand for 30 minutes.			
	(a	(a) After 30 minutes remove the pieces and press each gently between the fingers.			
		(i	) Record your observations.	,	
		•	L <sub>I</sub>	(1 mark)	
			L <sub>2</sub>	(1 mark)	
	(b	) E	caming the pieces.	•	
		(i)	Record other observations beside those made in (a) (i) above.	(3 marks)	
		(ii)	Account for the observations in (a) (i) above.	<sub>r</sub> (5 marks)	
		(ii)	Account for the observations in (b) (i) above.	(2 marks)	
3.	You are provided with three sets of seedlings labelled A,B and C. Examine them.				
	(a)	State	the conditions under which each set was grown.	(3 marks)	
	<b>(b)</b>	State	four differences between the seedlings in set A and B.	(4 marks)	
	(c)	(i)	Name the phenomenon exhibited by seedlings in set B.	(1 mark)	
	•		Clina o anno andre and the standard and	,	
		(ii)	Give a reason why plants exhibit the phenomenon named in (c)(i) above.	(1 mark)	
	(d)	. Name	the response exhibited by the seedlings in set C.	(1 mark)	
	(e)	Expl	ain how the response named in (d) above occurred.	(3 marks)	

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