23.4.3 Biology Paper 3 (231/3)

Name I	ndex	No	
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231/3 BIOLOGY Paper 3 (PRACTICAL) Oct./Nev.2006 1³/₄ hours

THE KENYA NATIONAL EXAMINATIONS COUNCIL
Kenya Certificate of Secondary Education
BIOLOGY
Paper 3
(PRACTICAL)
13/4 hours

INSTRUCTIONS TO CANDIDATES

Write your name and index number in the spaces provided at the top of this page. Answer all the questions.

Your are required to spend the first 15 minutes of the 1³/4 hours allowed for this paper reading the whole paper carefully before commencing your work.

Answers must be written in the spaces provided in the question paper.

Additional pages must not be inserted.

For Examiner's Use Only

Question	Maximum Score	Candidate's Score
1	15	
2	12	
3	13	
Total Score	40	

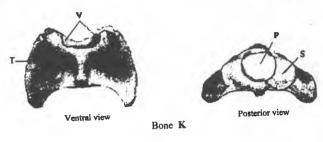
Candidates should check the question paper to ensure that all the pages are printed as indicated and no questions are missing.

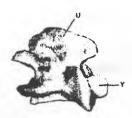
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Turn over

 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.





Side view Bone M



Posterior view
Bone N

(a)	Name the region from which	the bones were ob	tained.	(I mark)		
(b)	Identify the bones.		• Part 1	(3 marks)		
	K	4044,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
24	M					
	N					
(c)	State three characteristic featur	res of the bone in p	hotographs labe	lled 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)	Nome the stunctures that action	-1	- Inhalla d XI (m.)	F		
(4)	Name the structures that articuphotographs of bone K.	usac with the part	PROCHOUA IN	(1 mark)		

	(8	g) N p	Name the parts labelled U and Win the photograph of bone M and I hotograph of bone N.	R in the (3 marks)
2.	8	calpel o	provided with two pieces of plant material labelled specimen D. but a slit halfway through the middle of each piece as shown in the below.	Using a e
			Line of cut	
			e piece in the solution labelled \mathbf{L}_1 and the other in solution labelled \mathbf{L}_2 e set up to stand for 30 minutes.).
	(a) A	fter 30 minutes remove the pieces and press each gently between the	fingers.
		(i	Record your observations.	
		·	L _I	(1 mark)
			L ₂	(1 mark)
. •	(b)) Ex	saming the pieces.	**
		(i)	Record other observations beside those made in (a) (i) above.	(3 marks)
		(ii)	Account for the observations in (a) (i) above.	, (5 marks)
		(ii)	Account for the observations in (b) (i) above.	(2 marks)
3.	You	are pro	vided with three sets of seedlings labelled A,B and C. Examine them	l.
	(a)	State	e the conditions under which each set was grown.	(3 marks)
	(b)	State	four differences between the seedlings in set A and B.	(4 marks)
	(c)	(i)		(1 mark)
•		(ii)	Give a reason why plants exhibit the phenomenon named in (c)(i) above.	(1 mark)
	(d)	. Name	e the response exhibited by the seedlings in set C.	(1 mark)
	(e)	Expl	ain how the response named in (d) above occurred.	(3 marks)