23.4.3 I	Biology	Paper	3 ((231	/3 `
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Name				
Name	************	•••••	Index No	•••••

231/3 BIOLOGY Paper 3 (PRACTICAL) Oct./Nev.2906 1³/₄ hours

THE KENYA NATIONAL EXAMINATIONS COUNCIL Kenya Cordificate 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	
Tetal 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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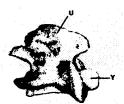
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Turn over

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.



Bone K



Side view



Posterior vie Bone N

(a)	Name the region from which the bones were obtained.	(1 mark)
(b)	Identify the bones.	(3 marks)
	K	********
	М	\
	N	**************************************
(c)	State three characteristic features of the bone in photographs labelled	
(d)	Name the structures that fit in the opening labelled P in the photograbone K.	uphs of (2 marks)
(e)	State the functions of the parts labelled S and T in photographs of b	one K. (2 marks)
D.	Name the structures that articulate with the parts labelled V in the photographs of bone K.	F

- Name the parts labelled U and Win the photograph of bone M and R in the (g) photograph of bone N. (3 marks)
- You are provided with two pieces of plant material labelled specimen D. Using a scalpel cut a slit halfway through the middle of each piece as shown in the 2. diagram below.



. .	llow the	piece in the solution labelled L ₁ and the other in solution labelled left up to stand for 30 minutes.			
(1	a) Afl	After 30 minutes remove the pieces and press each gently between the fingers.			
	(i)	Record your observations.			
		L ₁	(1 mark)		
		L ₂	(1 mark)		
(b) Exa	ming the pieces.			
	(i)				
	(ii)	Account for the observations in (a) (i) above.	, (5 marks)		
	(ii)	Account for the observations in (b) (i) above.	(2 marks)		
You	are provi	ded with three sets of seedlings labelled A,B and C. Examine the	m.		
(a)	State t	he conditions under which each set was grown.	(3 marks)		
(b)	State f	our differences between the seedlings in set A and B.	(4 marks)		
(c)	(i)	Name the phenomenon exhibited by seedlings in set B.	(1 mark)		
	(ii)	Give a reason why plants exhibit the phenomenon named in (c)(i)			
	•	above.	(1 mark)		
(d) .	Name t	he response exhibited by the seedlings in set C.	(1 mark)		
(e)	Explai	n how the response named in (d) above occurred.	(3 marks)		

3.