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231/3 BIOLOGY PAPER 3 JULY /AUGI TIME: 2 HO	ERSC?		
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Biology Practical

INSTRUCTIONS TO CANDIDATES:

- Write your name and index number in the spaces provided.
- Sign and write **date** of examination in the spaces provided above
- Answer all the questions in section A and B
- You are required to spend the first 15 minutes of the 1 ³/₄ hours allowed for this paper reading the whole paper carefully.

QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
1		
2		
3		
TOTAL	40	

For Examiner's Use Only:

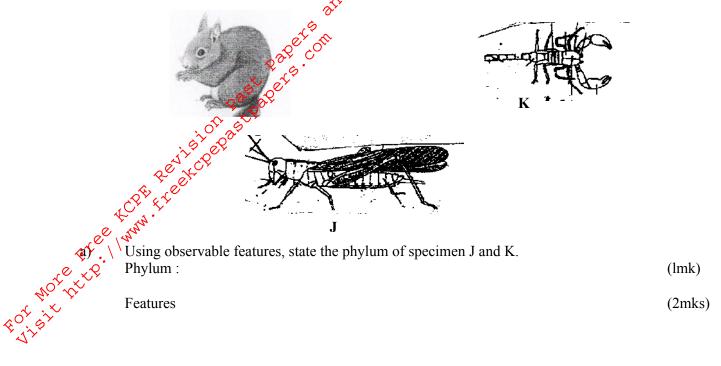
This paper consists of 4printed pages. Candidates should check to ascertain that all papers are printed as indicated and that no questions are missing

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Form Four 1

Biology 231/3

1. Specimen's **J**, **K** and **L** are photographs of animals. Specimen's **J** and **K** belong to same phylum.



b) (i) Using observable features only, state the class to which the photograph of specimen J belong. (3mks)
 Class:

Feactures:

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(ii) State the mode of feeding of specimen K.	(lmk)
(iii) Give a reason for your answer in b(ii) above.	(1mk)
(iv) State the ecological role played by specimen K in its habitat.	(lmk)
c) (i) State the class to which specimen L belongs.	(lmk)

Form Four	2	Biology 231/3
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10 ²	
(ii) Give two reasons for your answersin c(i) above.	(2mks)
orto.	
(iii) State how specimen is adapted for survival in its habitat.	(2mks)
Property and the second s	
2. You are provided with a portion of an anion bulb.	
- Remove one freshly leaf from the portion,	
Peed the epidermis from the inner surface of the leaf, Place it on a drop of water on a slide,	
\mathcal{O} \mathcal{O} have a cover slip on the epidermis,	
 Place a cover slip on the epidermis, Place a drop of iodine at one edge of the coverslip. Drain-off excess iodine solution water from opposite edge of the cover slip with a blotting paper, Observe the epidermis under low power, then under medium power. a) Draw and label two neighbouring cells. 	and
- Observe the epidermis under low power, then under medium power.	
a) Draw and label two neighbouring cells.	(5mks)

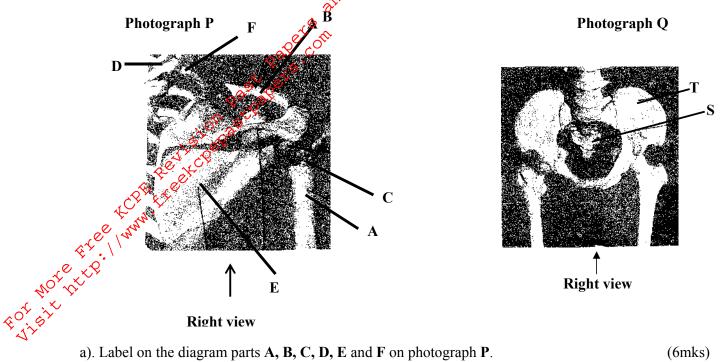
Magnification	(lmk)
b) Why was staining of the epidermis necessary?	(lmk)
c) Work out the length and width of one cell as seen under medium power.	(6mks)

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Form Four 3

Biology 231/3

You have been provided with two photographs P and Q from the mammalian body. Study them 3. carefully then answer questions below.



a). Label on the diagram parts A, B, C, D, E and F on photograph P. (6mks)

b). Identify bone S and T on pho- i. S	otograph Q.	(lmk)
ii. T		(lmk)
c). State how the part labelled (3mks)	S is adapted to its function.	

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Form Four 4 Biology 231/3