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NAME	<u>.</u> xX ²	INDEX NO
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BIOLOGY PAPER 3		
PRACTICAL		
TIME: 1 ¾ HOURS		
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PAPER 3 PRACTICAL JULY/AUGUST 2013 TIME: 1 3/4 HOURS ***Cot** NAKURU	J DISTRICT TRIA	L EVALUATION TEST 2013

NAKURU DISTRICT TRIAL EVALUATION TEST 2013 Kenya Certificate of Secondary Education

INSTRUCTIONS TO CANDIDATES

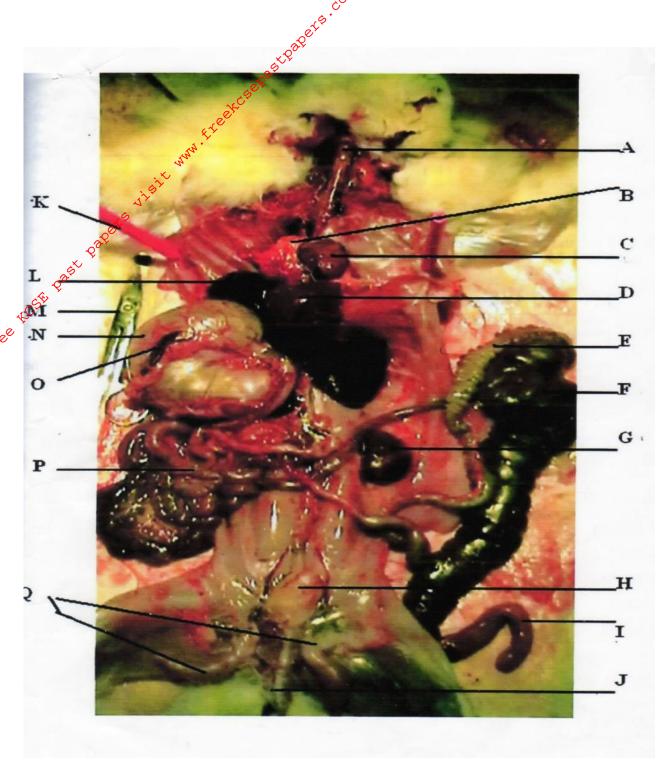
Answer all questions in the spaces provided

FOR EXAMINERS USE ONLY

Question	Maximum score	Candidate 's
		score
1	12	
2	15	
3	13	
4	40	

. You are provided with a	specimen labeled	which is part of the plant	
(a) (i) Using externa	l features only, identi	fy the part of the plant	(1mark)
	Mark C.		
~ &	ons for your answer in		(2marks)
\mathcal{V}_{Σ}			
(b) Peel off the epide	rmis from the lower s	surface of the specimen. Moppe slide. Stain with methy	
	f stomata in the table.		
-		noving the slide to another	
Record the number o	f stomata in the secor		(2marks)
View	Number of stomata Lower epidermis	in each view Upper epidermis	
2			_
Average number of stomata			
(c) Repeat the proce	edure in (b) using the	upper epidermis	
Record the numb	er of stomata in the ta	able	
(d) Record the follow	wing from the microso	cope you used.	(1mark)
(i) Magnification of			
(ii) Magnification	of objective lens used		(1mark)
	total magnification.	Show your working.	(1mark)

	of the second	
(e)	Account for the average number of stomate on each side of the specimen	(4 marks)
	Account for the average number of stomate on each side of the specimen Lower epidermis:-	
	4) 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	ox o	
	[₹] CST 2	
Moze Ez	Upper epidermis	
۶ `		



2. The photograph shown is of a dissected rabbit. Use it to answer the questions that follow.

(a) Identify the parts labelled	(5 marks)
A	B
C	N
I	

	(b) State the function of part F	(2marks)
	e et constitution of the c	•••••
	gard 2 de	•••••
	ji gi ^x	
	c) How is part P adapted to its functions?	(4marks)
	· · · · · · · · · · · · · · · · · · ·	
,		
	· · · · · · · · · · · · · · · · · · ·	••••••
		•••••
		•••••
	(d) The actual length of apparatus M is 100mm. Calculate the magnification of the phot	ograph (2marks)
	(e) Name the sex of the animal	(1mark)
	Reason	(1mark)
	You are provided with two lots of wheat grains B1 and B2 . Lot B1 has been kept in a dry while B2 has been kept in a most condition.	y condition
	(a)(i) Put lot B1 in mortar and crush with pestle. Divide the product into two portions	
	Put the first portion on a white tile and add iodine solution	
	(ii) Put the second portion in a test tube add 1cm ³ of water followed by 1cm ³ of Bene solution and heat.	dict's
	Record your observations and conclusion (a)(i) and (ii) in the table below	
	(b) Repeat the procedure in (a)(i) and (ii) with lot \mathbf{B}_2	

Reco	rd your observa	tions and conclusion in the table		(8marks)
Set	Test	Observation	Conclusion	
B ₁	Iodine wh	steek ^c		
	Benedict's			

Benedict's Benedict's Benedict's Benedict's Benedict's Benedict's

or Mos	(b) Account for the results obtained in the table	(5marks)
O	B ₁ Iodine test:	
	B ₁ Benedict's test:	
	B ₂ Iodine test	
	B ₂ Benedict's test	