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NAKURU DISTRICT SECONDARY SCHOOLS TRIAL **EXAMINATION - 2014** Kenya Certificate of Secondary Education

INSTRUCTIONS TO CANDIDATES

- Write your name and index number in the spaces provided at the top of this page
- Answer ALL questions
- You are required to spend the first 15minutes of the 1 ³/₄ 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 **<u>must not</u>** be inserted.

FOR EXAMINERS USE ONLY

Question	Maximum	Candidate 's
	score	score
1	17	
2	10	
3	13	
Total score	40	

C.O.F.	
ers.	
1. You are provided with a specimen labeled S	
(a) Classify the specimen into the following taxa	
 (a) Classify the specimen into the following taxa (i) Division	(1 mark)
ii) Class	(1 mark)
iii) Using observable features give a reason to your answer in a(ii) above	(1 mark)
2 ²²	

(b) Separate the aerial leaves and roots from the bulb. Using a pestle and mortar, crush the caerial leaves, bulb and roots separately. For More Free

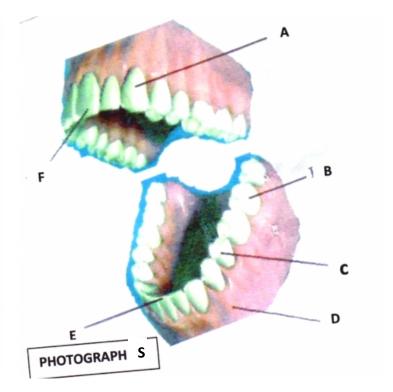
To each crushed material add **1 ml** of distilled water. Put the extract from the materials into separate test tubes and label them. Using the reagents provided, test for the food substances in each of the extracts. Record the procedure, observation and conclusions in t he table below. (8 marks)

			(8 marks)
Extract	procedure	observation	conclusion
Aerial leaves			
Bulb			
Duit			
Roots			

	cont.	
(c)	Account for the results obtained in (b) above	
	(i) Aerial leaves	
	Account for the results obtained in (b) abave (i) Aerial leaves	
	J.E.L.	
	(ii) Bulb e ^{rt}	(2 marks)
	(ii) Bulb Papers (iii) Papers (iii) Roots	
ET CONTRACT		
Note	(iii) Roots	(2 marks)
\$ ^{0[°]L}		
		(2 marks)

2 Study the photographs **P**, **Q** and **S** and use them to answer the questions that follow.

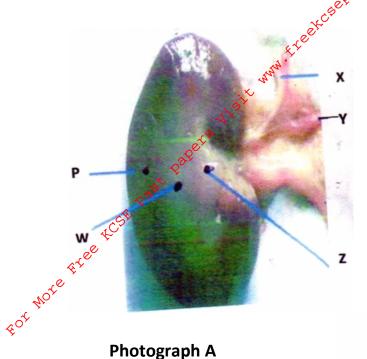




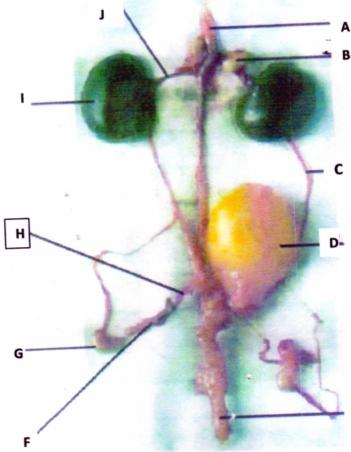


	$F_{A} = F_{A}^{A} = F_{A}^{A$	
NO	$e^{(a)}$ Photographs P and Q are teeth of animals in an ecosystem. Which tooth represents animal that depends on the other for food?	the
\$°°		(1mark)
	(b) Identify tooth Q	(1 mark)
	(c) State one functional difference between tooth \mathbf{P} and \mathbf{Q} .	(1 mark)
	(d)(i) Name the labeled parts F and A in photograph S	(2 marks)
	F: A:	• • • • • • • •
	(ii) Name one common disease that affects part D	(1 mark)
	(e) Identify the type of dentition shown in photograph S	(1 mark)
		,
	Reason	
	(f) Write the dental formula from photograph S above	(2 marks)
		•••••

The photographs \mathbf{A} and \mathbf{B} below represent part of urino-genital system in rabbits. 3



Photograph A



Photograph B

	COL	
	, ⁵ *.	
	Study them to answer the questions that follows perfections (a) Using photograph B ; (i) Name the parts labeled FCC	
	I	
	(ii) Name and state the functions of the parts labeled B and G (4 B	marks)
	Function	•••••
e e	Function	
FOTMOL	(iii) Name the fluid found in part labeled D	(1 mark)
Y	(b) Study photograph A carefully.	
	(i) Name part Z	. (1 mark)
	(ii) Differentiate between the contents in the structure X (Renal artery) and Y (Re	enal vein) (2 marks)
	(c) Which part s of the nephron are found in the region labeled W	(2marks)