NAME	INDEX NO
SCHOOL	DATE
	SIGN

231/3 BIOLOGY PAPER 3 PRACTICAL TERM 1 2016 TIME: 1 3/4 HOURS

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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	

- 1. You are provided with a specimen labeled S
- (a) Classify the specimen into the following taxa

(b) Sep	(b) Separate the aerial leaves and roots from the bulb. Using a pestle and mortar, crush the aerial leaves, bulb and roots separately. 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.					
	T	T 1	T 4	(8 marks)		
	Extract	procedure	observation	conclusion		
	Aerial leaves					
	Bulb					
	Roots					
(c) A	agunt for the result	to obtained in (b) above				
(c) AC	(c) Account for the results obtained in (b) above					

(i) Aerial leaves

 (i) Division
 (1 mark)

 ii) Class
 (1 mark)

iii) Using observable features give a reason to your answer in a(ii) above

(ii) Bulb	(2 marks)
(iii) Roots	(2 marks)
	(2 marks)

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



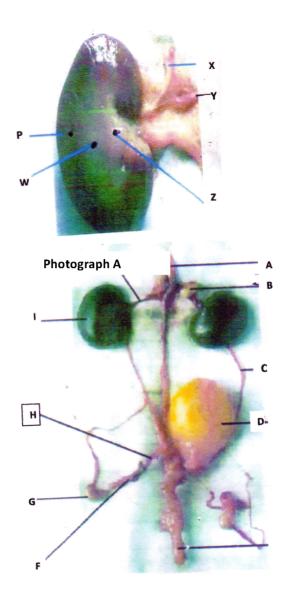
S



Photograph 10 P

animal that depends on the other for food?	(1mark)
(b) Identify tooth Q	
(c) State one functional difference between tooth ${\bf P}$ and ${\bf Q}$.	(1 mark)
(d)(i) Name the labeled parts ${\bf F}$ and ${\bf A}$ in photograph ${\bf S}$	(2 marks)
F: A:	
(e) Identify the type of dentition shown in photograph S (1 mark)	(1 11111)
Reason	
(f) Write the dental formula from photograph ${\bf S}$ above	(2 marks)

The photographs **A** and **B** below represent part of urino-genital system in rabbits.



Photograph B

Study them to answer the questions that follow

(a) Using photograph B;
(i) Name the parts labeled

F C	
I	
(ii) Name and state the functions of the parts labeled B and G	(4 marks)
В	
Function	
G	
Function	
(iii) Name the fluid found in part labeled D	(1 mark)
(b) Study photograph A carefully.	
(i) Name part Z	(1 mark)
(ii) Differentiate between the contents in the structure X(Renal artery) and Y(2 marks)	(Renal vein)
(c) Which parts of the nephron are found in the region labeled ${\bf W}$ (2m)	arks)