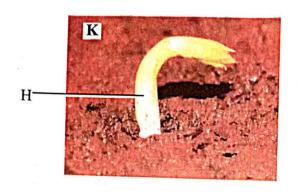
FORM 4 TERM 1 OPENER BIOLOGY

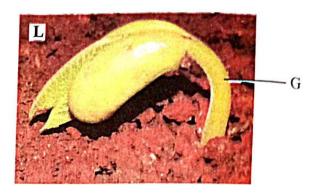
NAME	ADM NO
CLASS	SIGN
INDEX NO	DATE

BIOLOGY PP3 FORM 4 40MKS TIME 1HR 45MINS

Answer all the questions in the spaces provided.

1. You are provided with photographs of seedlings labeled K and L. examine them



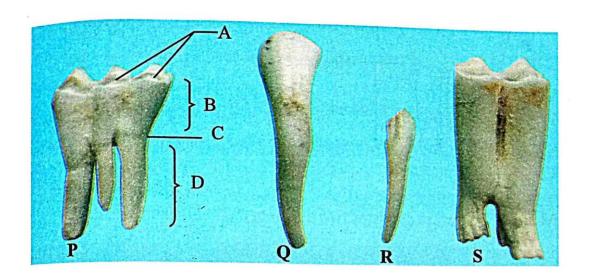


(a) Given that the two plants belong to the same class, name the class and give a reason based the observable features on any of the two seedlings. (2mks) (i) Class

(ii)Reason:

(b)State giving a reason the type of germination that occurs in each of the two seedlings.(4mks) (i)K

Reason	
L	
Reason	
(c)Name the parts labeled H and G on the seedlings. H	(2mks)
G	
(d)Name the type of roots system that will develop in the two seedlings.	(1mk)
(e)The roots of both seedlings may develop swelling later in life.(i)Name the organisms that are to be found in the swellings.	(1mk)
(ii)What is the role of the organisms that you have mentioned in (i)above.	(1mk)
(iii)Name and explain the relationship that exists between the organisms you have name and the plants. (3mks	
2. You are provided with photographs of specimens labeled P,Q,R and S which were obtasame animal. Examine them	ained from the



(a) With a reason identify P and Q. (4mks) Reason Q Reason (b)Using observable features only state. (i)One similarity between specimen Q and R. (1mk) (ii)One difference between specimen R and S. (1mk) (c)Explain how specimen S is adapted for its functions. (2mks) (d)In specimen P name the four parts labeled. (4mks)

solution, iod filter funnel (a)Cut speci filter the jui food substan	rovided with a mature orange fruit ladine, dropper, means of heating,3 test, 1 100ml beaker. Imen H transversely into 2 halves. Sque and discard the residue. Using parances in the juice and record observation.	tubes, 1 test tube holder, test tube ueeze the juice from the two halt t of the juice and the reagents pro	e rack, filter paper, ves into a small beaker. ovided only, test for the below.
Food	Procedure	Observations	Conclusion
Starch			
Reducing sugar			
Vitamin C			

A-B-C-D-

b)Using the other half, observe it carefully draw and label its parts.	(4mks)
e)Name deficiency disease in human that may result from deficiency of Vitamin	C. (1mk)