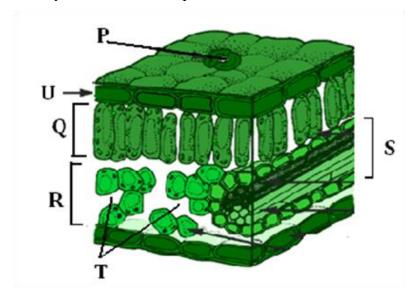
KCSE PREDICTIONS 2020

BIOLOGY PAPER 3

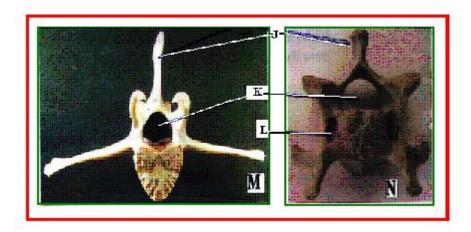
1. The photograph below shows the arrangements of different type of cells and tissues in a certain living organism. Study it and answer the questions that follow.



a)	i) From what part of the plant was the photograph obtained.		(1 mark)		
	ii) Name the parts labeled.		(3marks)		
		P			
		Q			
		R			
		S			
		T			
b.	i) State the function of the part labeled Q. (1mar			(1mark)	
	ii)		two adaptations of structure Q to its function.	(2 marks)	
c.	Sta	ate two	environmental factors which regulate the function of the part labeled P.	(2 marks)	
d.	Me	Measure the length of one cell of region labeled Q on the photomicrograph whose magnification is			
	X5	6000.W	That is the actual length of the cell in micrometer? Show your working.	(3marks)	

•••••	 	

2. You are provided with photographs of specimens labeled M and N. Examine them and answer the questions that follow.



a)	i)	Identify the specimens represented by the photographs.				
		M:	(1 mark)			
		N:	(1mark)			
	ii)	label the parts labeled				
		J:	(1mark)			
		K:	(1 mark)			
		L:	(1mark)			
b)	i) 	State four observable differences between specimens M and N.				
	ii)	Name the region of the body from which the specimens were obtained. M:				
c)	Но	w is specimen N adapted to its function?	(4 marks)			
	••••					

				(6 mark
Food substance	procedure	observation	conclusion	
		tightly. Put solution K in containing solution L .I		
	the visking tubing with on and conclusion in the	iodine and benedict's so	lution. Record your	(3marks
Test with	procedure	observation	conclusion	,
Iodine solution				

Benedict's solution					
Test the contents in the be	eaker with iodine and Bene	dict's solution. Record you	r procedure, observation		
and conclusion in the tabl	le below.				
Test with	procedure	observation	conclusion		
Iodine solution					
Benedict's solution					
Account for your observation in b(i) and (ii) above					

ii)

c.