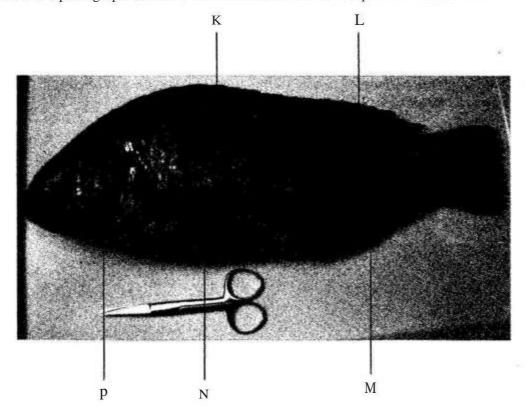
2.1.3 Biology Paper 3 (231/3)

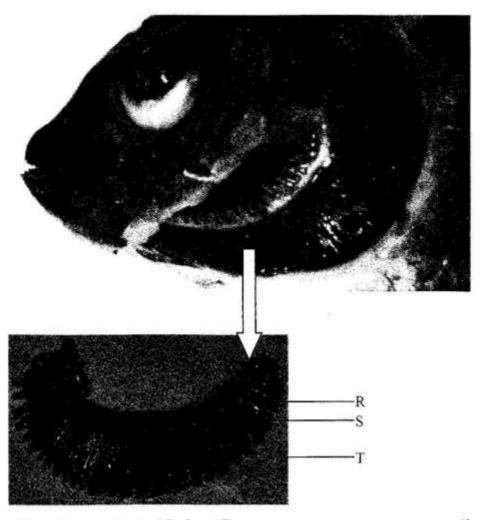
l Below is a photograph of a fish. Examine it and answer the questions that follow.



(a)	Name	e the parts labelled K, L, Mand N.	(4 marks)
	K		*****************
	L		
	M		
	N		***************************************
(b)		actual length of the pair of scissors next to the fish is 12.5cm. Using this mation, calculate the actual length of the fish.	(3 marks)
	(c)	Name the fins that prevent the following movements of fish during swin	mming. (3 marks)
	(j)	Yawing:	.,,,,,,
	(ii)	Pitching: and	

(c)	Name the fins that prevent the following movements of fish during swimming.
	(3 marks)
(1)	Yawing:
(ii)	Pitching: and

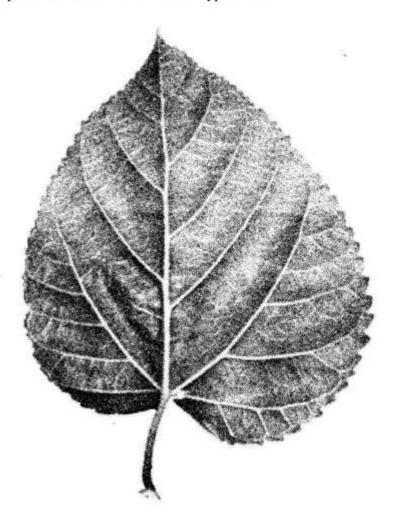
(d) The photograph below shows structures visible after removing the part labelled P. The inset is a magnified view of one of the structures.



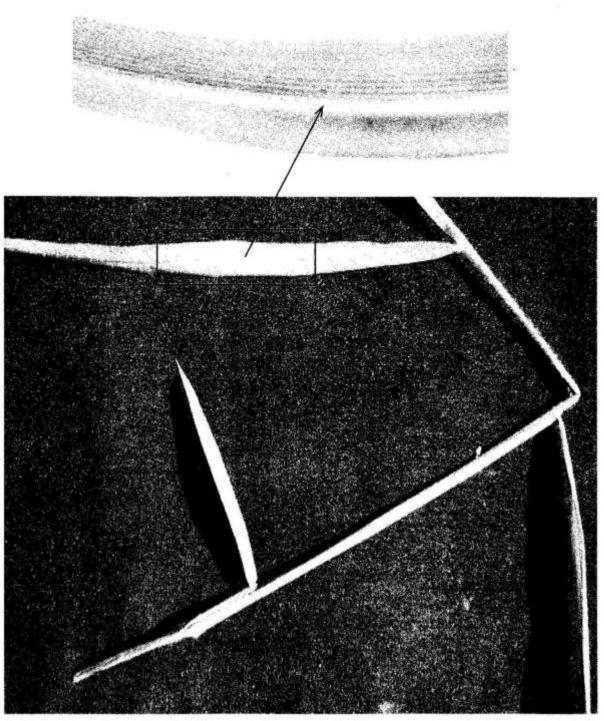
()	Name the parts labelled R, S and T.	(3 marks)
R		
S		
Т		

(ii) Explain how each of the parts named in (d) (i) above is adapted to its function. (3 marks)

The photographs labelled D and E show two types of leaves.



PHOTOGRAPH D



PHOTOGRA PH E

	1.7			
(a)		a reason, state the classes of plant obtained.	ts from which the leaves in Photogra	aphs D and E (4 marks)
	Photog	graph D		
	Reaso	n		
	Photog	graph E		
	Reaso	n		
(b)	State 1	three features in the leaf shown	in photograph D that adapt it to its f	unctions.
				(3 marks)
(c)	•	of plants as seen under a light m	etures observed in cross sections of nicroscope.	parts of two
		PHOTOGRAPH F	PHOTOGRAPH G	
	()	Name the parts labelled U, V a	and W.	(3 marks)
		u		***************************************
		V	***************************************	***************************************

Cross Section F	Cross Section G

.,,	

Identify five differences between cross sections F and G and record them in the

(ii)

You are provided with a sample of food labelled X in solution form, solution J (Iodine solution), solution K (Benedict's solution) and solution L (Biuret's reagent). Carry out tests on the food sample to identify the type of food substances present. (9 marks)

Food being tested for	Procedure	Observations	Conclusion
			;
		-	
- 100			