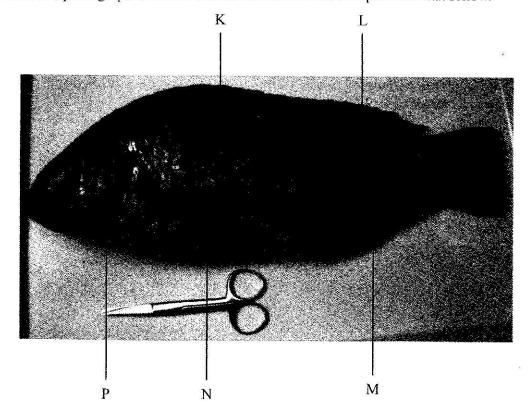
2.1.3 Biology Paper 3 (231/3)

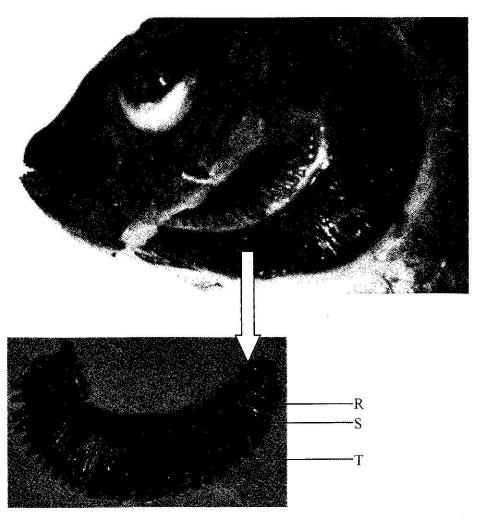
1 Below is a photograph of a fish. Examine it and answer the questions that follow.



(a)	Name the parts labelled K, L, M and N.		
	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 swi	mming. (3 marks)
	(i)	Yawing:	*****************
	(ii)	Pitching: and	

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

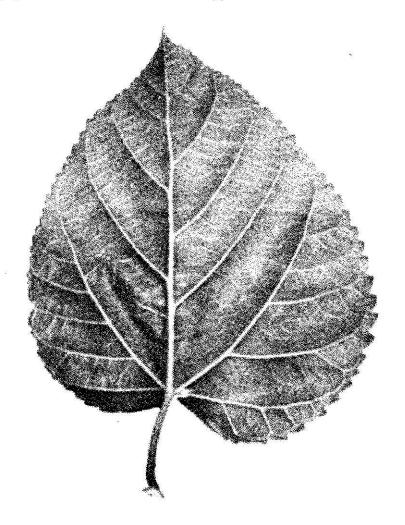
(d) The photograph below shows structures visible after removing the part labelled P. The inset is a magnified view of one of the structures.



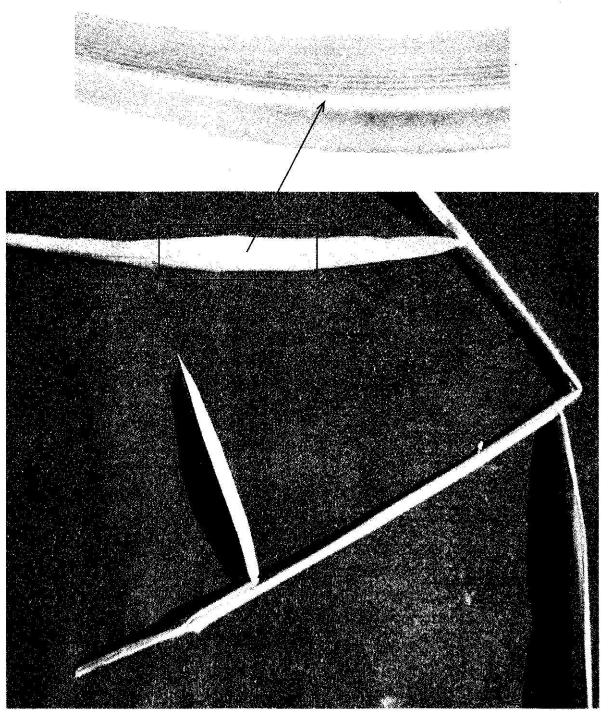
(i)	Name the parts labelled R, S and T.	(3 marks)
R		
S		
Т		

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

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



PHOTOGRAPH D



PHOTOGRAPH E

	11 1			
(a)	With a rea		nts from which the leaves in Photogr	aphs D and E (4 marks)
	Photograp	h D		•••••
	Reason			
	Photograp	h E		
	Reason			
(b)	State thre	e features in the leaf shown	in photograph D that adapt it to its f	unctions. (3 marks)
(c)		ographs below show the stru lants as seen under a light n	actures observed in cross sections of nicroscope.	parts of two
		U _V	W—	Ů
	P	HOTOGRAPH F	PHOTOGRAPH G	
	(i) N	ame the parts labelled U, V	and W.	(3 marks)
	U			
	V			***************************************

	entify five differences bet le below.	ween cross sections	s F and G and re	ecord them in the (5 marks)	
	Cross Section	F	Cross Section G		
18.60					

	*				
You are provious of the sample to iden	ded with a sample of food enedict's solution) and so ntify the type of food sub	d labelled X in solu olution L (Biuret's i	tion form, solut	tion J (Iodine solution)	
Food being tested for	Procedure	Observati	ons C	onclusion	
8				;	
		ė		8	
		21			
34 90000			g.		