24.4.3 Biology Paper 3 (231/3)

1	(a)	3(a)	Loores	mulatura a transfer of		
		3(a) Leaves with serrated margin/toothed/saw like/teet4(b) Leaves opposite.				like.
		5(a)		pinnate.		(3 marks)
L)				•		(3 marks)
b)		Spec	cimen	Identity	Stone fall	
			P	Compositae;	Steps follov 1b,5a,6a	vea
			Q	Nyctaginaceae;	la,2a,3b	
			R	Commelinaceae;	1a,2b	
			S	Bignoniaceae;	1b,5b	
			T	Papilionceae;	1b,5a,6b	•
			U V	Malvaceae;	1a,2a,3a,4a	
			V	Verbenaceae;	1a,2a,3a,4b	/10 I I
						(12 marks)
	(a)	Food substance: Starch. Procedure: Add (2) drops of iodine to solution P.				(1 mark)
		Obser	aure: Add	(2) drops of iodine to solut uish black/Blue/black.	tion P.	(1 mark)
				ch present.		(1 mark)
		Conci	usion. Stat	ch present.		(1 mark)
	(b)	Food substance: Reducing sugar.				(1 mark)
		Procedure: To (1 ml) of solution P, add equal amount of Be				nedict's solution/S
		Warm/heat/boil the mixture. Observation: Green to yellow to orange/ brown.				(2 marks)
		Conch	vation: Gr	een to yellow to orange/ br	own.	(1 mark)
		Conci	usion. Keu	ucing sugar present.		(1 mark)
	(c)	Procedure: Place a drop of solution P onto a filter paper. G				ntly dry over flame
					(2 marks)	
		Observation: No permanent translucent spot/mark. Conclusion: Lipids absent.			t/mark.	(1 mark)
		Conch	usion: Tibi	us absent.		(1 mark)
	(a)	J	-	Lungs.		
		K		Gills.		(2 marks)
	(b)	Gaseous exchange /external respiration.				(1 mark)
	(c)					
		• X	-	Ring of cartilage.		
		• Y	.=	Lung.		
		• Z	-	Heart.		(3 marks)
	(d)	(i)	1: Gill ra	akers.		
			2: Gill a			
			3: Gill fi	laments.		(3 marks)
	(ii)					
		Rakelik	e/projectio	ns for trapping solid particle ooth like/needle like project	les.	

particles form reaching and damaging the filaments.

Many/numerous/long/filaments to increase surface area for gaseous exchange.

(4 marks)