24.4.3 Biology Paper 3 (231/3)

1	(a)				
			s with serrated margin/tooth	ed/saw like/teeth l	like.
			s opposite. s pinnate.	•	(3 marks)
		5(a) Leave	5 primate.	,	(5 marks)
(b)					
		Specimen Identity		Steps followed	
		P	Compositae;	1b,5a,6a	
		Q	Nyctaginaceae;	1a,2a,3b	
		R S	Commelinaceae;	1a,2b	
		T T	Bignoniaceae; Papilionceae;	1b,5b 1b,5a,6b	
		Ŭ	Malvaceae;	1a,2a,3a,4a	
		V	Verbenaceae;	1a,2a,3a,4b	
2		·	,,	14,24,84,18	(12 marks)
۷	(a)	Food substance: Starch.			(1 mark)
		Procedure: Add (2) drops of iodine to solution P. Observation: Bluish black/Blue/black.			(1 mark)
					(1 mark)
		Conclusion: St	aren present.		(1 mark)
	(b)	Food substanc	e: Reducing sugar.		(1 mark)
		Procedure: To (1 ml) of solution P, add equal amount of Be Warm/heat/boil the mixture.			
					(2 marks)
			Green to yellow to orange/b	rown.	(1 mark)
		Conclusion: Re	educing sugar present.		(1 mark)
	(a)	Procedure: Place a drop of solution P onto a filter paper. Gently dry over flame.			
	(c) Procedure: Place a drop of solution P or			a filter paper. Gei	nily dry over flame. (2 marks)
		Observation: No permanent translucent spot/mark.		ot/mark	(2 mark)
	Conclusion: Lipids absent.		ou mark.	(1 mark)	
3			•		(=)
	(a)	J -	Lungs.		
		K -	Gills.		(2 marks)
	(b)	Gaseous exchange /external respiration.			(1 mark)
	(-)				
	(c)	• X -	Ring of cartilage.		
		* Y -	Lung.		
		• Ž -	Heart,		(3 marks)
	(1)				(
	(d)		l rakers. l arch/bar.		
			1 filaments.		(3 marks)
		3. Gh	i maments.		(5 marra)
	(ii)				
	*	Rakelike/projections for trapping solid particles.			
	•	Rakelike/pointed/tooth like/needle like projections for trapping/sieving/filtering solid particles form reaching and damaging the filaments. Many/numerous/long/filaments to increase surface area for gaseous exchange.			
	-				
		iviany/numerou	shong/maments to increase	surrace area for g	aseous exchange. (4 marks)
					(T IIMI NO)