KENYA NATIONAL EXAMINATION COUNCIL

KCSE 2007

BIOLOGY PAPER 3 MARKING SCHEME

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24.4.3 Biology Paper 3 (231/3)

		-		,			
l	(a)		,				
		3(a) Leaves with serrated margin/toothed/saw like/tee				lika	
		4(b)	Leaves	opposite.	in the gray to other saw like teelii like.		
		5(a)	Leaves			(3 marks)	
						(5 marks)	
)							
		Spec	imen	Identity	Steps follow	ved	
			P	Compositae;	1b,5a,6a		
			Q	Nyctaginaceae;	1a,2a,3b		
			R	Commelinaceae;	la,2b		
			S	Bignoniaceae;	1b,5b		
			T	Papilionceae;	1b,5a,6b		
			U	Malvaceae;	1a,2a,3a,4a		
			V	Verbenaceae;	1a,2a,3a,4b		
						(12 marks)	
	(a)	Food s	substance:	Starch			
	(4)			(2) drops of iodine to solu	-41 D	(1 mark)	
		Obser	vation: Bh	ush black/Blue/black.	mon P.	(1 mark)	
			usion: Star			(1 mark)	
		Concr	asion. Start	on present.		(1 mark)	
	(b)	Food s	ubstance:	Reducing sugar.		(1 mark)	
		Proced	dure: To (1	ual amount of Ber	nedict's solution/S.		
		Warm/	heat/boil th	ne mixture.	[and an out of Do	(2 marks)	
		Observ	vation: Gre	en to yellow to orange/ b	rown	(1 mark)	
		Conclu	ision: Redu	ucing sugar present.		(1 mark)	
						,	
	(c)	Proced	lure: Place	a drop of solution P onto	a filter paper. Ger	ntly dry over flame.	
						(2 marks)	
		Observ	ation: No permanent translucent spot/mark.			(1 mark)	
		Conciu	ision: Lipid	is absent.		(1 mark)	
	(a)	J	_ 1	Lunga			
	(a)	K		Lungs.			
		A.		Gills.		(2 marks)	
	(b)	Gaseous exchange /external respiration.				(1	
				· · · · · · · · · · · · · · · · · · ·		(1 mark)	
	(c)						
		• X	- I	Ring of cartilage.			
		• Y	I	Lung.			
		• Z	- I	Heart.		(3 marks)	
						(
	(d)	(i)	1: Gill ra				
			2: Gill ar				
			3: Gill fil	laments.		(3 marks)	
	(ii)					-	
'	(ii)	Rakalik	e/projectice	na for transir1: 1	-1		
		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/m	imerone/lo	nng and damaging the fil	aments.		
		141411y/110		ng/filaments to increase s	surrace area for gas		
						(A mareka)	

(4 marks)