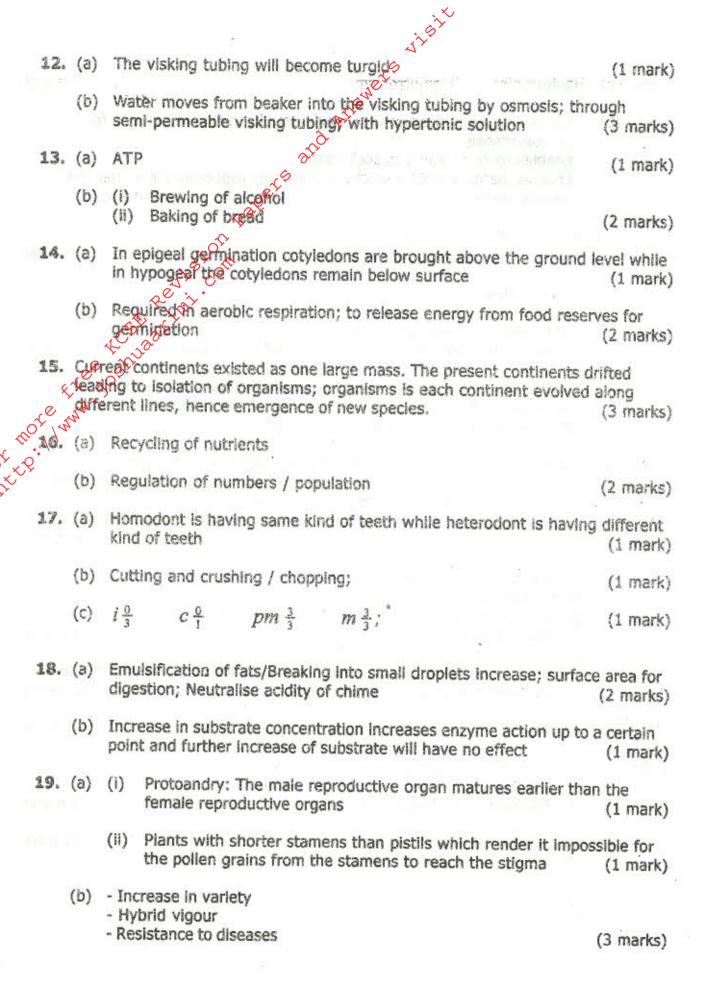
K.C.S.E 2006 BIOLOGY 231/1

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		C. C. W.	0
L.	(a)	To increase surface area for attachment of respiratory enzymes	(1 mark
	(b)	(i) Stroma (ii) Bearing photosynthetic pigments	(1 mark) (1 mark)
2.	(a) (b)	Ovule Page Ovary	(1 mark) (1 mark)
3.	(a)	Scierenchynda Xylem vesséis	(2 marks)
	(b)	Cells take in water and become turgid	(1 mark)
* × ^	ei)c	Sebum	(1 mark)
Vin	(b)	- Kills micro organisms - Cools the body - Getting rid of wastes	(2 marks)
,	Pres	nata found only on upper epidermis to allow efficient gaseous exc ence of aerenchyma tissue to enable it float and storage of air.	change; (2 marks)
ks.	(a)	 The genetic material in not surrounded by a membrane. Smaller in size 	
		- Lack most organelles	(2 marks)
	16.5	6 with many and a	7,810,000,000
	(0)	Arthropoda	(1 mark)
	(a)	Thrombosis / varicose veins / arteriosclerosis	(1 mark)
	(b)	 Regulation of body temperature by distributing heat generated Regulation of pH of fluids 	by the body
		- Defence against disease causing organisms	(3 marks)
3.		- Prevents scurvy - Development of healthy gums	(2 marks)
Э.	(a)	Sister Chromatics separate. Sister chromatics move to opposite population in the spindle fibre	poles of (2 marks)
	(b)	- Gamete formation - Source of variation	(2 marks)
10.	Mov	e towards favourable environment	(1 mark)
Pop.	Con	version of excess glucose to glycogen for storage	(1 mark)



			\mathcal{A} .				
29.	(a)	Haptotropism / Thign	notropism nexts	(1 mark)			
	3.5		C V				
	(b)	- Expose leaves in positions for maximum absorption of sunlight for					
		photosynthesis					
		- Enables roots of plan	nts to seek water				
		- Enables plants to obtain mechanical support especially those that lack					
		woody stems	(3)	marks)			
		1457 COS C S					
21.	(a)	X - Motor neuro					
		Y - Sense organ	n / Receptor	(2 marks)			
		130 COL					
	(b)	Acetyecholine					
		S. Little					
22.	(a)	SThey alter the shape	of the lens	7724 T 08075 474020			
	4	- They contract and re	elax to alter the shape of the lens	(1 mark)			
,	e d						
84	(4)	Rods perceive light of	flow intensity and are not sensitive to				
05	4.	Acetycholine They alter the shape of the lens They contract and relax to alter the shape of the lens Rods perceive light of low intensity and are not sensitive to colour therefore low visual aculty; while cons perceive light of high intensity and are sensitive to colour therefore high visual aculty (2 marks					
122		sensitive to colour the	erefore high visual acuity	(2 marks)			
5590 8480				A STATE OF THE STA			
23.	(a)		 Transmit and magnify sound vibra 				
	(b)	Cochlea	 Converts nerve vibrations into ne 	rve impulses			
	(c)		 Posture and balance 	597 01 025 12 1947C			
	(d)	Eustachlan tube	 Balance pressure in middle ear so 				
				(4 marks)			
24.	- Thin walls for faster diffusion of gases						
		- Moist for dissolving gases					
		Large surface for maximum diffusion /gaseous exchange					
	- [-6]	ghly vascularised to fa	cilitate diffusion	(4 marks)			
1727523	119700	NAMES OF THE SERVICE OF THE SERVICE OF					
25.	(a)		surface area to volume ratio than the				
		iosses more energy p	er unit body weight	(2 marks)			
	59						
	(0)	Lactic acid		(1 mark)			
100							
25.	(a)	X - Denitrifying Bacte	eria				
		Y - Animals	2 2 3	40			
		Z - Nitrogen fixing ba	acteria (in soil)	(3 marks)			
				N.			

27. Hydrogen and oxygen

(1 mark)