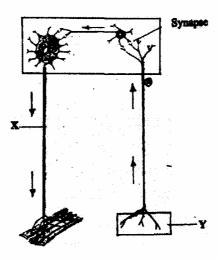
THE KENYA NATIONAL EXAMINATIONS COUNCIL Kenya Certificate of Secondary Education Biology Paper 1 2006

1	·' (\$)	State the function of cristae in mitochondria.	(1 mark)		
	(b)	The diagram below represents a cell organetic.			
		X Y Q			
		(i) Name the part labelled Y.	(1 mark)		
		(ii) State the function of the part labelled X.	(1 mark)		
2	Name the part of a flower that develops into				
	(a)	seed	(1 mark)		
	(b)	fruit.	(1 mark)		
3	(a)	Name two tissues in plants which are thickened with lignin.	(2 marks)		
	(b)	How is support attained in herbaceous plants?	(1 mark)		
4	(a)	Name the fluid that is produced by sebaceous glands.	(I mark)		
	(b)	What is the role of sweat on the human skin?	(2 marks)		
5	State	two ways in which floating leaves of aquatic plants are adapte	ed to gaseous exchange. (2 marks)		
6	(a)	State three characteristics of Monera that are not found in of	her kingdoms. (3 marks)		
	(b)	Name the class to which a termite belongs.	(1 mark)		

	(a) Name one defect of the circulatory system in humans.	(1 mark)
	(b) State three functions of blood other than transport.	(3 marks)
8	State the role of vitamin C in humans.	(2 marks)
9	(a) State two processes which occur during anaphase of mitosis.	(2 marks)
	(b) What is the significance of meiosis?	(2 marks)
10	State the importance of tactic response among some members of kingde	om Protista. (1 mark)
11	State the role of insulin in the human body.	(1 mark)
12	An experiment was set up as shown in the diagram below. Glass rod Thread Sucrose solution Visking tubing Distilled water	
	The set up was left for 30 minutes.	
	(a) State the expected results.	(i mark)
	(b) Explain your answer in (a) above.	(3 marks)
13	(a) In what form is energy stored in muscles?	(1 mark)
	(b) State the economic importance of anaerobic respiration in plants.	(2 marks)
14	(a) Distinguish between epigeal and hypogeal germination.	(i mark)

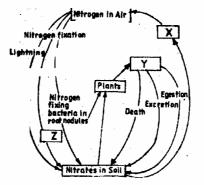
	(b)	Why is oxygen necessary in the germination of seeds?	(2 marks)
15	Expla	in continental drift as an evidence of evolution.	(3 marks)
16	Wha	t is the importance of the following in an ecosystem?	(2 marks)
	(a)	Decomposers.	
	(b)	Predation.	
17	(a)	Distinguish between the terms homodont and heterodont.	(1 mark)
	(b)	What is the function of carnassial teeth?	(1 mark)
	(-)	A certain animakings no incissors, no canines, 6 premolars and 6 m	-les in its second table
	(c)	In the lower jaw there are 6 incissors, 2 canines, 6 premolars and 6 Write its dental formula.	
18	(a)	In the lower jaw there are 6 incissors, 2 canines, 6 premolars and (5 molars.
18		In the lower jaw there are 6 incissors, 2 canines, 6 premolars and 6 Write its dental formula.	5 molars. (1 mark) (2 marks)
18 19	(a)	In the lower jaw there are 6 incissors, 2 canines, 6 premolars and 6 Write its dental formula. State two functions of bile juice in the digestion of food.	5 molars. (1 mark) (2 marks)
	(a) (b)	In the lower jaw there are 6 incissors, 2 canines, 6 premolars and 6 Write its dental formula. State two functions of bile juice in the digestion of food. How does substrate concentration affect the rate of enzyme action	5 molars. (1 mark) (2 marks)
	(a) (b)	In the lower jaw there are 6 incissors, 2 canines, 6 premolars and 6 Write its dental formula. State two functions of bile juice in the digestion of food. How does substrate concentration affect the rate of enzyme action Explain how the following prevent self-pollination:	5 molars. (1 mark) (2 marks) (1 mark)
	(a) (b)	 In the lower jaw there are 6 incissors, 2 canines, 6 premolars and 6 Write its dental formula. State two functions of bile juice in the digestion of food. How does substrate concentration affect the rate of enzyme action. Explain how the following prevent self-pollination: (i) protoandry 	5 molars. (1 mark) (2 marks) (1 mark) (1 mark)
	(a) (b) (a)	In the lower jaw there are 6 incissors, 2 canines, 6 premolars and 6 Write its dental formula. State two functions of bile juice in the digestion of food. How does substrate concentration affect the rate of enzyme action Explain how the following prevent self-pollination: (i) protoandry (ii) self-sterility.	5 molars. (1 mark) (2 marks) (1 mark) (1 mark) (1 mark) (3 marks)

The diagram below represents a reflex arc in human. 21



	(a)	Name the parts labelled X and Y.	(2 marks)
	(b)	Name the substance that is responsible for the transmission of an imp synapse.	ulse across the (1 mark)
22	(8)	State the function of the ciliary muscles in the human eye.	(1 mark)
	(b)	State two functional differences between the rods and cones in the hun	man eye. (2 marks)
23	State t	he function of each of the following parts of human ear.	(4 marks)
	(a)	Ear ossicles.	
	(b)	Cochlea.	
	(c)	Semi-circular canals.	
	(d)	Eustachian tube.	

- 24 . State four ways in which respiratory surfaces are suited to their function. (4 marks)
- 25 (a) A dog weighing 15.2 kg requires 216 kJ while a mouse weighing 50 g requires 2736 kJ per day. Explain. (2 marks)
 - (b) What is the end-product of respiration in animals when there is insufficient oxygen supply? (1 mark)
- 26 The chart below represents a simplified nitrogen cycle.



What is represented by X, Y and Z?

(3 marks)

27 Name the end-products of the light stage in photosynthesis. (2 marks)

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