		and Antime	y b					
1	Name the	e tissues in plants respons						
	(a) tr	ansport of water and min	neral salts;					
	X	ansport of carbohydrates	s;					
\$º	STOP F	orimary growth.		(3 marks)				
2.30	State the importance of the following processes that take place in the nephron of a human kidney:							
	(a) u	ltrafiltration;		(1 mark)				
	(b) s	elective reabsorption.		(1 mark)				
3	(a) 1	Name a disease of the liv	er whose symptom is jaundice.	(1 mark)				
	(b) State the causative agent of:							
	((i) cholera;		(1 mark)				
		(ii) candidiasis.		(1 mark)				
4	The diagrams below show a red blood cell that was subjected to a certain treatment.							
		At start		At the end of experimen	t			
	(a)	Account for shape	e of the cell at the end of the	experiment.	(2 marks)			
	(b)	Draw a diagram to treatment.	o illustrate how a plant cell w	ould appear if subjected t	to the same (1 mark)			
5	(a)	State two factors t	hat affect enzymatic activitie	es.	(2 marks)			
	(b)	Explain how one	of the factors stated in (a) abo	ove affects enzymatic acti	vities.			

(1 mark)

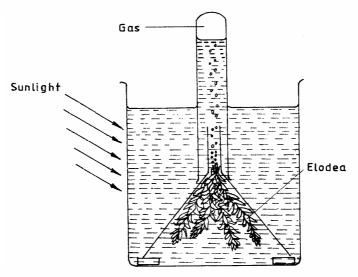
What is meant by non-disjunction? (1 mark) 6 (a) Give two examples of continuous variation in humans. (2 marks) (1 mark) What is a fossil? (3 marks) How does convergent evolution occur? (b) The diagram below shows a stage in mitosis in a plant cell. 8

(1 mark) (a) Name the stage of mitosis. (b) Give two reasons for your answer in (a) above. (2 marks) (c) Name the part of the plant from which the cell used in the preparation was obtained. (1 mark) 9 Give three factors that determine the amount of energy a human being requires in a day. (3 marks) 10 Name the antigens that determine human blood groups. (2 marks) (a) State the adaptation that enables the red blood cells to move in blood (b) capillaries. (1 mark) 11 What is homeostasis? (a) (1 mark) (b) Name three processes in the human body in which homeostasis is involved. (3 marks) (2 marks) State two functions of the endoplasmic reticulum. 12 Name the part of the retina where image is formed. (1 mark) 13 (a) (2 marks) State two characteristics of the image formed on the retina. (b)

Describe the three characteristics of a population.

15 Explain what happens when there is oxygen debt in human muscles.

16 Phe diagram below represents a set up that was used to investigate a certain process in a plant.



(a) State the process that was being investigated.

(1 mark)

(3 marks)

(2 marks)

(b) State a factor that would affect the process.

(1 mark)

- 17 Account for the following phases of a sigmoid curve of growth of an organism:
 - (a) lag phase;

(1 mark)

(b) plateau phase.

(1 mark)

18 How is the epidermis of a leaf of a green plant adapted to its functions?

(2 marks)

The diagram below represents a tissue obtained from an animal.



			ath	9	
		(a)	\sim \sim	the tissue.	(1 mark)
		(b)	State the	function of the tissue named in (a) above.	(1 mark)
texx	20.	\$ (a)	. What is s	single circulatory system?	(1 mark)
) ہ	55 30 Str	(b)	Name an	organism which has single circulatory system.	(1 mark)
ere la	nan.	(c).	Name the	opening to the chamber of the heart of an insect.	(1 mark)
re to	21	(a)	What is s	seed dormancy?	(1 mark)
J		(b)	Name a g	growth inhibitor in seeds.	(1 mark)
	22 State two characteristics of aerenchyma tissue.				(2 marks)
	The diagram below shows a human tooth.				
		(a)	Identify th	ne tooth.	(1 mark)
	(b)		How is the tooth adapted to its function?		(1 mark)
		(c)	State the role of the following vitamins in the human body:		
			(i) C	· · · · · · · · · · · · · · · · · · ·	(1 mark)
			(ii) K		(1 mark)
	24	Name	the sites wh	nere light and dark reactions of photosynthesis take place.	(2 marks)
		T :-1.4			

	Q'	¢ _p						
25	Giving a reas	son in each case, name the class to which each of the following	g organisms (4 marks)					
,	Bean plant							
Ren's	Reason							
24.	Bat							
2,	Reason							
26	State one use of each of the following excretory products of plants:							
	(a) cole	hicine;	(1 mark)					
27	Explain now	(1 mark)						
28	(a) State	the mode of asexual reproduction in yeast.	(1 mark)					
	(b) Disti	inguish between protandry and protogyny.	(2 marks)					
29	State a function of amniotic fluid.							
30	The diagram below shows two fused bones of a mammal.							
		F G						

(1 mark)

(1 mark)

(1 mark)

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bone that articulates at the point labelled ${\bf F}$

Identify the fused bones.

the hole labelled G.

Name the

(i)

(ii) ·

(a)

(b)