END OF TERM 2

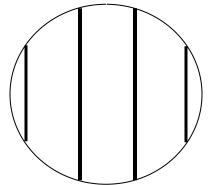
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(1marks)

•		CLASS:	ADM:
1. S	State three ways in which protein are impo	ortant to plant.	
	(3marks)		
•••••			
2. Т	The diagram below represents a cell organo	elle.	
	Δ		
		В	
		2	
	D		
(a)	Identify the organelle.		(1 mark)
()			(
(b)	Name the part labeled B .		(1 mark)
	-		
(c)	State the function of part labeled A .		(1 mark)
•••••			
3 Г	Define binominal nomenclature .		

4. Name any two problems that animal species overcome by their dispersion. (2marks)
5. Explain why tropical forests do not have undergrowth (2marks)
6. How is blood pressure generated and maintained in a vein? (2marks)
7. What is the function of catalase? (2marks)
8. (a) State the important of cross-pollination to flowering plants. (1mark)
(b) How is self-pollination a disadvantage to flowering plants? (1mark)

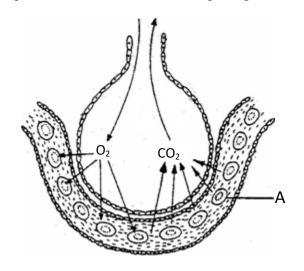
9. What is the role of light energy in autotrophic nutrition i	
10. How is fur important to desert animal, other than in temperature?	the regulation of their body (1mark)
11. What are the functions of named product of white blood	
12. Explain three adaptations of cardiac muscles to their fun	
12. Explain three adaptations of cardiac muscles to their fun	
13. A form one student trying to estimate the size of onion con the microscope's field of view.	cells observed the following



(a) Define the term resolving power.	(1 mark)
(b) If the student counted 20 cells across the field of view calculate cell in micrometers.	the size of one (2 marks)
14. What is tidal volume in ventilation in man?	(1mark)
15. Define peristalsis and state its importance in the nutrition of mamm	nals. (2 marks)
16. The diagram below shows part of plant tissue.	
(a) Name cell labeled \mathbf{X} and part labeled \mathbf{W} .	(2 marks)
\mathbf{X}	
\mathbf{W}	

17. Why is the liver part of the digestive system?	(2 marks)
18. State the importance of cytoplasmic filaments in sieve tube elements.	(1 mark)
19. State any two characteristics of populations.	(2marks)
20. Describe any two functions of mitosis?	(2 marks)

21. The diagram **below** shows the exchange of gases in alveolus.



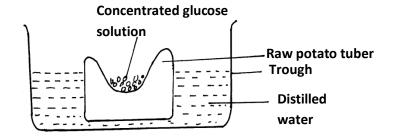
(a)	State how the alveoli are adapted to their function.	(3 marks)
(b)	Name the cell labeled \mathbf{A} .	(1 mark)
	What are the external conditions needed, by root hair cells, for the upalts ions from the soil?	otake of mineral (2 marks)
23. T	The diagram below represents a pyramid of biomass derived from a ce	ertain ecosystem
	Consumer	
(a) S	Suggest the type of ecosystem from which the pyramid was derived	(1mk)
(b)St	ate the significance of short food chains in an ecosystem	(1mk)

24. Suggest two reasons for the appearance of glucose in the urine of a m	
25. (a) State the source Carbon (IV) oxide in aquatic ecosystems.	(2 marks)
(b) State the importance of Carbon (IV) oxide to aquatic ecosystems.	(2 marks)
	•••••
26. The set up below shows apparatus to demonstrate a certain biological	l process
Oil Boiled and cooled glucose plus yeast suspension Liquid X	
(a) What biological process was being investigated in the experiment	(1mk)
(b)Write down a word equation that represents the reaction above	(1mk)
(c) In the above set up, why was it important to boil and cool glucose be yeast? (1mk)	fore adding

27. What is the homeostatic importance of cuticles of leaves?	(2marks)
28. Outline two functions of parenchyma cells in herbaceous pla	
29. What is the important of diffusion to red blood cells?	(2marks)
30. The diagrams below show a pair of homologous chromosom answer the questions that follow.	
(i)State the phenomenon shown above	(1mk)

(ii) What is the genetic significance of the phenomenon above?	(2mks)
 31. Account for the thick wall and narrow lumen of an artery.	(2marks)
32. How do pathogens that enter the body through the respiratory tract i from causing diseases?	n man prevented (1mark)
33. Where does the detoxification of ammonia take place in mammals?	(1mark)
 34. Name the processes that take place in the grana of chloroplast.	(2marks)

35. The experiment illustrated below was set up to investigate a certain physiological process using a raw tuber



(a) Suggest a possible physiological process that w	as being investigated (1mk)
(b) Explain the results obtained in the above experi	iment after a few hours (2mks)
(a) State the observations that would have been me	do if the armoniment was remoted
(c) State the observations that would have been ma using boiled potato	(2mks)
36. Name the causative organism of the following dis	seases
(i) Malaria	(1mk)
(ii) Bilharzia	(1mk)