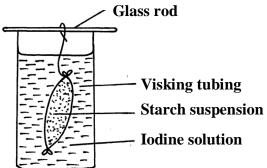
FORM 1 ENDTERM 3 EXAM BIOLOGY

NA	MEADMC	LASS
1.	State the name given to the study of (i) Insects	(2mks)
	(ii) Classification of living organisms.	
2.	(a) Name the products of complete hydrolysis of sucrose.	(1mk)
	(b) What happens to these products named in (a) above, when they are excess in body of man.	
3.	(a) State the roles of light in plant nutrition.	(2mks)
	(b) Give a reason why glucose formed at the end of photosynthesis is converted at into starch.	once (1mk)
4.	(a) State the formula for calculating linear magnification of a specimen when usin (1mk)	
	(b) Give one functional advantage of use of the following microscopes. (i) Light Microscope	(2mks)
	(ii) Electron Microscope.	

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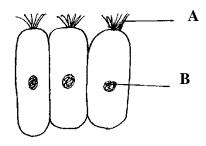
5. An investigation was set up as shown in the diagram below.



	ter 30 minutes, starch suspension had turned blue-black while iodine solution re Name the physiological process that was being investigated in the experiment.	(1mk)
(b)	Account for the results observed after 30 minutes.	(3mks)
6.	Define the term osmosis. (2mks)	
7.	(a) Distinguish between homodonts and heterodonts. (1ml	,
	 (b)A certain mammal has no incisors, no canines, 6 premolars and 6 molars in t In the lower jaw, there are 6 incisors, 2 canines, 6 premolars and 6 molars. (i) Write down the dental formular of this mammal. 	
	(ii) What is the mode of nutrition of this mammal?	(1mk)
8.	The reaction represented by equation below occurs in the body	
	Hydrogen peroxide — Oxygen + Water	
	(a) Name enzyme Z	(1mk)

(b) Name an organ in the human body where this reaction occ	
(c) State the biological importance of the reaction above	(1mk)
. State how each of the cells below are specialized to carry out the (a) Palisade cell	(1mk)
(b) A sperm cell	(1mk)
0. State the functions of each of the following organelles.	
) Ribosomes	(1mk)
ii) Golgi apparatus	(1mk)
	· · · · · · · · · · · · · · · · · · ·
Name the bond that exists between amino acids during conder proteins?	nsation process of forming (1mk)
Name the bond that exists between amino acids during conder proteins?	nsation process of forming (1mk)
Name the bond that exists between amino acids during conder proteins? 2. Explain how the following factors affect the rate of photosynthese proteins.	nsation process of forming (1mk) nesis (1mk)

13. Study the figure below which shows a type of epithelial tissue



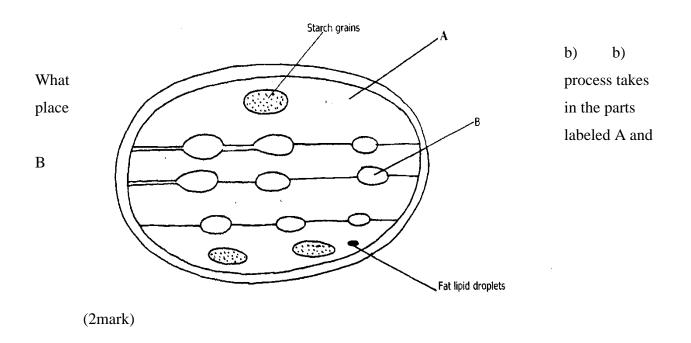
(a) State the name of structure A .	(1mk)
(b) Give an example in humans where this epithelium is found	(1mk)
14. The diagram below represents part of the human digestive system. Appendix Rectum	
Name the organs labeled L and M.	(2mks)
L:	
M:	
15. Some form one students wanted to collect the following animals for stud Laboratory. State the suitable apparatus they should use.	y in the
i) Flying insects	(1mark)
ii) Crawling stinging insects	(1mark)
iii) Small animals from tree barks	(1mark)

16. Study the diagram below and answer the questions that follows

Identify the structures labeled A and B

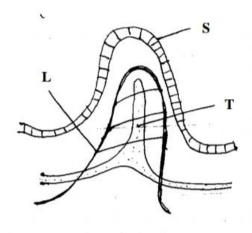
a)

(2marks)



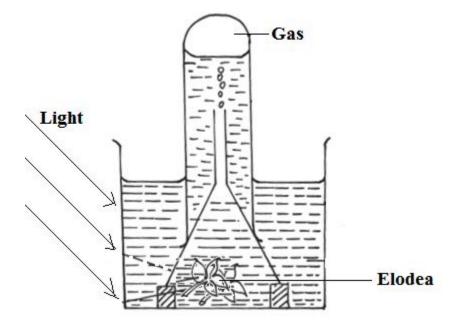
17. A student estimated the diameter of a field of view to be 2.8mm. The diameter was occupied by four onion cells. Estimate in micrometers the diameter of onion cell. Show your working.(2 marks)

18. The diagram below represents structure found in the walls of ileum.



a)	Identify the structure shown in the diagram.	(1 mark)
b)	Name parts labeled S, T and L.	(3 marks)
	S	
	T	
	L	
c)	Name products of digestion which are absorbed into;	(2 marks)
	L	
	T	
d)	State how the above structure is adapted to its function.	(2 marks)

19. The 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.

(b) Other than the factors shown, state two factors that would affect the proce (2 mark)	
20. Outline two roles of active transport in human beings.	(2 marks)
21. Write the role of the following parts of microscope.	(3marks)

(1 mark)

i) Mirror	
Diaphragm	
ii) Coarse adjustment knob	
n) Course adjustment knoo	
22. Explain w hy plant cells do not burst when immersed in distilled water.(2mks)	
23. (a)State two functions of bile juice in the digestion of food? (2ma)	arks)
(b) How does substances concentration affect the rate of enzyme reaction?	(1mark)
24. The diagram below represents a cell	
X	
\	

	,	ame the parts labeled X and Y (2marks)	
	X		•••••
	Y		
	b) S	tate why the structures labeled X would be more on one side than the other	ner side.(1mark)
• • • •	••••••		••
	25. a	What is diffusion	(2marks)
	b) E	ow does diffusion gradient affect the rate of diffusion?	(1mark)
	0) 1	on does unitasion gradient affect the rate of unitasion.	(Tillula)
	••		
••••	•••••		
