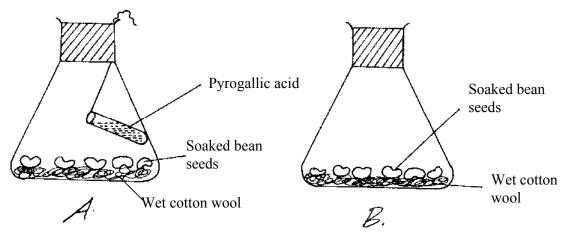
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	231/1					
	BIOL	OGY				
THEORY						
	1.	(a) What is meant by resolving power of a microscope.	2mks*TRZ*			
		b) State the reason behind the addition of iodine solution, to an onion epidermis on a slide				
		while being observed on a light microscope.	1mk*TRZ*			
	2.	a) It is necessary for large organisms to have an elaborate transport system. Expl	ain why.2mks			
		b) Explain why an Amoeba does not require a transport system.	1mk* <i>TRZ</i> *			
	3.	State the role of Hydrochloric acid in the stomach.	2mks*TRZ*			
	4.	Explain how presence of hairs on a leaf lowers the rate of transpiration.	2mks*TRZ*			
	5.	Account for the osmoregulatory changes that would take place in a marine amoet	e amoeba if it was			
		transferred to a fresh water environment.	3mks*TRZ*			
6. Identify the structural adaptation of a male and female parts of a flower, f		Identify the structural adaptation of a male and female parts of a flower, for wind	pollination.			
			2mks*TRZ*			
	7.	Lamarcks theory of evolution has been rejected by scientist today. Explain why.	2mks *TRZ*			
	8.	State the role played by an exoskeleton in the class insecta.	3mk* <i>TRZ</i> *			
	9.	What is apical dominance?	2mks*TRZ*			
	10.	State the role of the following in digestion in a mammal:				
		(a) Teeth	1mk*TRZ*			
		(b) Enzymes	1mk*TRZ*			
	11.	When are the following hormones secreted?				
		(a) Insulin hormone.	1mk* <i>TRZ</i> *			
		(b) Anti-diuretic hormone. (ADH)	2mks*TRZ*			
	12	A form three class set up the experiment shown below. Make a careful observation	n and answer			

A form three class set up the experiment shown below. Make a careful observation and answer 12. the questions that follow.



If the set up was kept at a room temperature for one week,

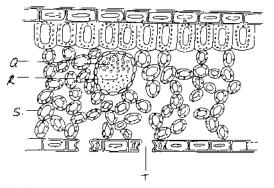
	(a) What was the aim of the experiment?	1mk*TRZ*
	b) Account for the results at the end of the experiment.	2mks. *TRZ*
13.	State the importance of sexual reproduction in living organisms.	2mks*TRZ*
14.	State the role of saprophytes in an ecosystem.	2mks*TRZ*
15.	List three characteristics that would place man in the class mammalia.	3mks*TRZ*
16.	Name two support tissues in plants.	2mks*TRZ*
17	Study the diagram below and answer the questions that follow:	

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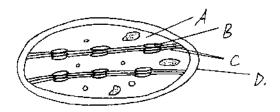
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	a) Identify the parts labeled:	1mk* <i>TRZ</i> *
	b) Explain how water from structure Q reaches structure T.	3mks* <i>TRZ</i> *
18.	State how a root hair cell is adopted for its functions.	2mks*TRZ*
19.	a) State two ways in which plants get rid of their nitrogenous wastes.	2mks*TRZ*
	b) State two adaptations of the nephron for selective re-absorption.	2mks*TRZ*
20.	Describe any two ways in which an alveolus is adapted to its functions.	2mks*TRZ*
21.	Account for the loss in dry weight of cotyledons in a germinating bean seed.	2mks*TRZ*
22.	a) Name the type of responses exhibited by	
	i) Movement of termites from dry soil towards moist soil.	1mk* <i>TRZ</i> *
	ii) Twinning stem on contact with a support.	1mk*TRZ*
	b) State the significance of the responses you have named in a) above.	2mks*TRZ*
23.	Name the parts of the mammalian ear that are responsible for:	
	a) Amplification of sound vibrations.	1mk*TRZ*
	b) Regulation of air pressure on both sides of the ear drum.	1mk*TRZ*
24	Study the diagram below and answer the questions that follow	

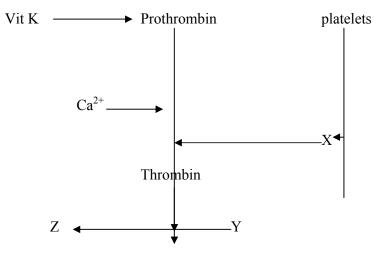
24. Study the diagram below and answer the questions that follow.



	a) Name the parts labeled:	2mks*TRZ*			
	b) In which of the labeled parts would:				
	i) Carbon (iv) oxide fixation occur?	1mk* <i>TRZ</i> *			
	ii) Light absorption take place?	1mk* <i>TRZ</i> *			
25.	With reference to inheritance of genetic defects, state the meaning of the term ca	rrier.			
		2mks*TRZ*			
26.	. Chloroquin has been used for many years since its discovery, for the treatment o	f malaria, but			
	it is no longer effective. Suggest why it is no longer effective.	2mks*TRZ*			
27.	Identify the type of muscle found in:				
	a) Sweat duct.	1mk* <i>TRZ</i> *			
	b) Heart	1mk* <i>TRZ</i> *			
28.	Give an account for each of the following:				
	a) Xylem vessels do not collapse even when they do not contain water.	1mk* <i>TRZ</i> *			
	b) A mature onion epidermal cell does not lose its shape even after losing water.	1mk* <i>TRZ</i> *			
29.	a) What are vestigial structures?	2mks*TRZ*			
	b) State an example of a vestigial structure in man.	1mk* <i>TRZ</i> *			
30.					
	you would expect to find the nail five years later when the tree will have grown				
		2mks*TRZ*			
31.	When is a plant cell said to be fully plasmolysed?	2mks*TRZ*			
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32. Study the flow diagram showing the process of blood clotting and answer the questions that follow:



a) Name the substance labeled X.b) State the importance of the substance labeled Z

1mk**TRZ** 2mks**TRZ**