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BIOLOGY Paper 1 May 2014 2 2 HOURS	X.	
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	231/1	
	PAPER 1	
	FORM FOUR	
	2 HOURS	

## **Instructions to candidates**

- 1. Write your name, school and index number in the spaces provided
- 2. Answer all questions in the spaces provided

## For Examiner's use only

Question	Maximum Score	Candidate's Score
1 - 29	80	

\$Of 4

		Define the following branches of Biology.  i) Genetics	<b>©</b>		
	1.	Define the following branches of Biology. i) Genetics	(2 marks)		
		Math.			
		ii) Entomology		•••	
		<u>.</u>			
	2.	State three reasons that necessitate classificate	tion of living organisms by taxonomists. (3 marks)		
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				•••	
	3.	Define resolving power of a microscope.	(1 mark)		
				•••	
	4.	4. State two functions played by the cell wall in plant cells and give the cell wall to performing each of the stated functions.			
		Function	Adaptation		
		i)			
		ii)			

Concentration of sugar	Diameter of calls (um)
Concentration of sugar	Diameter of cells (µm)
solution (%)	
Dage 1	50
5	40
10	30
15	20

	a)	From the results determine the concentration of the cell sap.	(1 mark)	
			• • • • • • • • • • • • • • • • • • • •	
	1 \		1	
	b)	b) Give an explanation for the average diameter of the cells placed in 15% sugar sol		
			(3 marks)	
			• • • • • • • • • • • • • • • • • • • •	
	c) Name the process that occurred in the cells which were place din 1% sugar s			
			(1 mark)	
			• • • • • • • • • • • • • • • • • • • •	
			• • • • • • • • • • • • • • • • • • • •	
			(2 1 )	
6.		(a) Name two defects of the circulatory system in humans.	(2 marks)	
			• • • • • • • • • • • • • • • • • • • •	

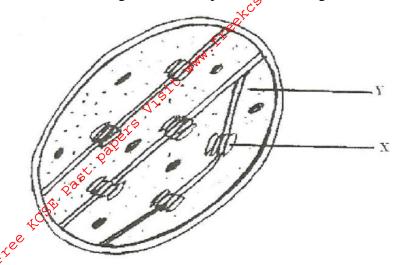
Eoz W

M

a) Name the tooth labeled M. (1 mark)

b) Name the part labeled Q and state its role. (2 marks)

Name:



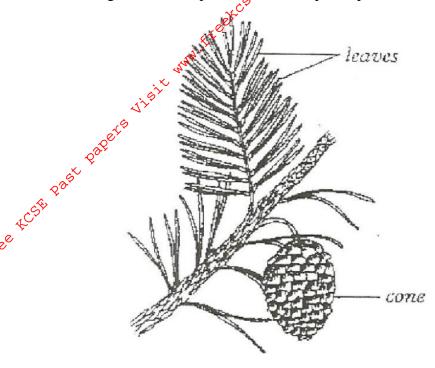
a) Name the part labeled Y (1 mark)

b) State the function of the part labeled X (1 mark)

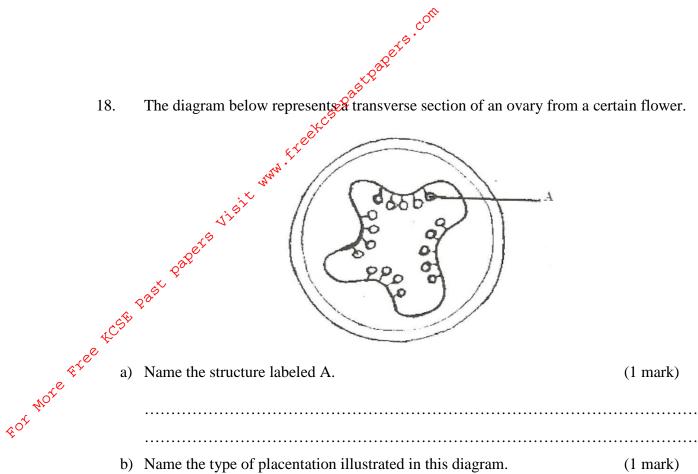
9. (a) In what form is energy stored in muscles? (1 mark)

(b) State the economic importance of anaerobic respiration in plants. (2 marks)

10. (a) Name two gaseous exchange surfaces in plants. (2 marks)



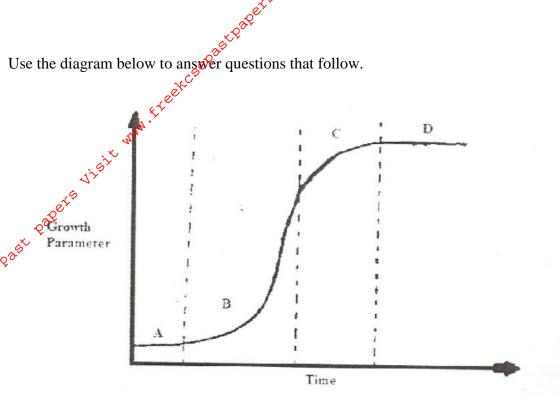
	a) State the class to which the plant belongs.	(1 mark)
	b) State the difference between members of Gymnospermaphyta and Atngiospermaphyta	(2 marks)
15.	Give two reasons why a spider is classified under Phylum Arthropoda.	(2 marks)



..... b) Name the type of placentation illustrated in this diagram. 19. (a) State the functions of the following parts (2 marks) i) Endometrium

ii) Epididymis

b) What mechanism facilitates the movement of the ovum towards the uterus? (1 mark)



	a) Identify the type of growth curve shown.	(1 mark)
	b) State one factor that leads to phase labeled B	(1 mark)
21.	Give two differences between epigeal and hypogeal germination	(2 marks)
22.	State the function of juvenile hormone in growth and development of inse	ects.
		(1 mark)