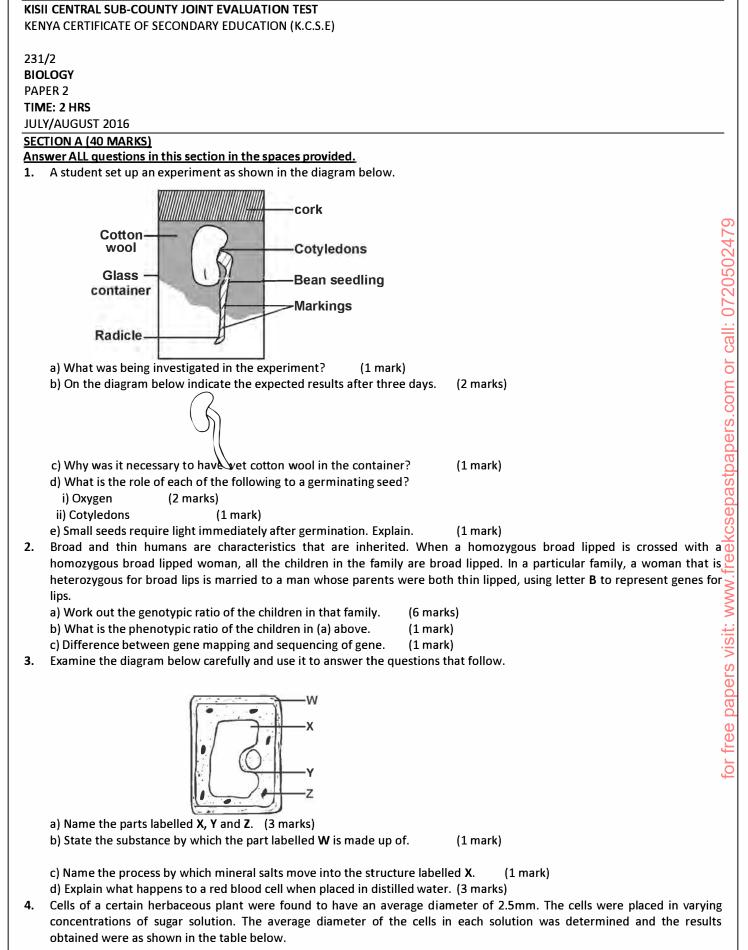
	Biology p1, p2&p3
KISII CENTRAL SUB-COUNTY JOINT EVALUATION TEST	
KENYA CERTIFICATE OF SECONDARY EDUCATION (K.C.S.E)	
231/1	
BIOLOGY	
PAPER 1	
TIME: 2 HRS JULY/AUGUST 2016	
1. a) What is cell specialisation? (1 mark)	
b) Name two specialised cells in plants. (2 marks)	
2. Explain what happens to glucose formed by dicotyledonous leaf during photosynthesis. (3 marks)	
3. State three features in bisexual flower that hinder self-fertilization. (3 marks)	
4. Give reasons why primary productivity in an aquatic ecosystem decreases with depth. (2 marks)	
 State two advantages of metamorphosis to the life of insects. (3 marks) The diagram below shows circulation in fish. 	170
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Part T	U C
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Body	i i i i i i i i i i i i i i i i i i i
L E	L L
i) Identify the type of circulation	C C
i) Identify the type of circulation	
iii) State one disadvantage of this type of circulation. (1 mark)	
7. State how the following parts of the eye are suited to their functions.	t C
i) Cornea (2 marks)	N M
ii) Aqueous humour (2 marks)8. The genetic disorder haemophilia is due to a recessive sex linked gene. A man who is haemophilia ma	urried a woman
who is a carrier for the condition.	irried a woman
a) Using the letter (H) to represent the normal condition an (h) for the haemophiliac condition.	
i) What is the genotype of the man and woman? (1 mark)	fre
ii) Work out a cross between the man and woman. (3 marks)	2
9. The diagram below represents a tissue obtained from an animal.	
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	ee naners vi
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	, Line and
a) Identify the tissue (1 mark)	Ļ
b) State the function of the tissue named in (a) above. (1 mark)	
 10. Explain how hairs in mammals help in keeping the body warm. (3 marks) 11. In a laboratory experiment, a student observing a drop of pond water under a microscope saw and dree 	ew amoeba. The
eyepiece magnification was X5 and the objective lens magnification X100.	
a) What was the magnification of the set up? (1 mark)	
b) If the amoeba had a diameter of 5cm at the above magnification. Calculate its actual length in	
micrometres. (2 marks)	

Biology p1, p2&p3

12. 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 labelled A. (1 mark) 13. State three characteristics of merismatic cells. (3marks) (2 marks) 14. a) Name two chemical substances that form the DNA. b) Write the base sequence of messenger RNA (mRNA) that would be coded from the DNA strand shown below. (1 mark) C - A - T - G - A- G - T c) What is a mutation? (1 mark)15. State three adaptations of the Red blood cells. (3 marks) **16.** a) State **two** functions of the xylem vessels. (2 marks) b) List two structural adaptations that make xylem vessels suitable to their function. (2 marks) **17.** Explain the following observations; D i) Some tropic plants are known to close their stomata during the day and open them at night. (2 marks) ii) When transplanting a young plant it is advisable to remove some of the leaves. (2 marks) 18. a) Name the chemical compound formed in the mitochondria which is the source of energy. (1 mark) b) Explain why fats are not considered as the main respiratory substrate yet they yield more energy Ders (2 marks) when completely oxidised than carbohydrates. **19.** a) State **one** function of thyroxin in mammals. (1 mark) b) State one difference between nervous and endocrine system based on the nature of response. (1 mark) 20. A student failed to see the field of view through the eye piece of the microscope. suggest two possible reasons for this. (2 marks) 21. Explain what would happen to red blood cells if plasma glucose concentration becomes very high because insulin secretion failed. (3 marks) reek 22. State two disadvantages of anaerobic respiration in animals. (2 marks) 23. a) Name the spore producing structures in; i) Bryophyta (1 mark) ee babers visit: www. ii) Pteridophyta (1 mark) 24. i) Differentiate the following convergent and divergent evolution. (2 marks) ii) State one role played by Mutation in evolution. (1 mark) 25. The diagram shows the position of a formed in a defective eye. a) Identify the defect (1 mark) b) How can the defect be corrected? (1 mark) 26. The wings of birds and those of insects are superficially similar but their internal structure is completely different. i) Name the type of evolution that led to the two types of wings. (1 mark) ii) Give two other examples of this type of evolution. (2 marks) 27. The diagram below represents a bone obtained from a mammal. a) Name the bone (1 mark) b) Name the: i) Bone which articulates with the bone named in (a) above at the cavity labelled K. (1 mark) ii) Joint formed by the bones (1 mark)



Biology p1, p2&p3

CONCENTRATION OF SUGAR SOLUTION (PERCENT)	DIAMETER CELLS mM
1%	5.0
5%	4.0
10%	3.0
15%	2.0

a) From these results, determine the concentration of the cell sap. (1 mark)

b) What term is given to the sugar solution whose concentration is equal to that of the sap? (1 mark)

c) Give an explanation for the average diameter of the cells placed in 1% sugar solution compared to the normal diameter of the cells. (4 marks)

d) Describe the difference in appearance between cell cytoplasm before and after being placed in 15% sugar solution.

In an investigation, two persons A and B drank the same amount of a strong solution of glucose. Their blood sugar levels 5. were immediately determined and thereafter at one hour intervals for the next six hours. The results were as shown in the table below.

Time in hours	Glucose level in mg/100ml of blood		
	Person A	Person B	
0	86	110	
1	225	355	
2	160	320	
3	92	300	
4	90	260	
5	90	245	
6	86	215	

a) In humans, the normal blood sugar level is about 90mg/100ml of blood. Explain the change in the sugar level in person A during;

(3 marks) i) The first 4 hours.

ii) The 6th hour (2 marks)

b) i) Suggest a possible reason for the high blood sugar levels in person **B**. (2 marks)

ii) How can high blood sugar level in a person be controlled? (1 mark)

SECTION B (40 MARKS) Answer question 6 (compulsory) in the spaces provided and either question 7 or 8 6. During an ecological study of a lake, a group of students recorded the following observations. Planktonic crustaceans feed on planktonic algae Small fish feed on planktonic crustaceans, worms and insect larvae Worms feed on insect larvae A bird species feeds on small fish, planktonic crustaceans and worms Insect larvae feed on planktonic algae Large fish feed on small fish a) From this record of observations, construct a food web. (5 marks) b) From the food web you have constructed in (a) above, isolate and write down a food chain that ends with; i) Bird species as secondary consumer (1 mark) ii) Large fish as tertiary consumer (1 mark) c) The biomass of the producers in the lake was found to be greater than that of primary consumers. Give an explanation for this observation. (1 mark) d) Using either the observations recorded by the students or the food web you have constructed, name; i) Two organism that complete for food in the lake. (2 marks) ii) **Two** sources of food the organisms in (d) (i) above compete for. (1 mark) (3 marks) e) i) State three ways in which humans may interfere with this lake ecosystem. ii) Explain how each of the ways you have stated above may affect life in the lake. (6 marks) (2 marks) 7. a) Define the term tropism. (18 marks) b) Explain the mechanisms of various tropisms in plants. 8. Describe how the various structures of the human female reproductive system are adapted to their function. (20 marks) KISII CENTRAL SUB-COUNTY JOINT EVALUATION TEST

KENYA CERTIFICATE OF SECONDARY EDUCATION (K.C	.S.E)
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	Distilled water in a w					20
	Empty beaker (100m	-				
	Four clean test-tubes					g
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1.		ith specimen labeled P in a le features only, state class			(1 mark)	0.0
		ns for your answer.	(2 marks)	specimen belong.	(I Mark)	ers
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		-		e to mix. Decant the content		ţ.
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