NAME	INDEX NO
231/3 PLOL OCY	CANDIDATE'S SIGN
PAPER 3	DATE

KIRINYAGA CENTRAL SUB-COUNTY EFFECTIVE FORTY JOINT EXAMINATION – 2016

Kenya Certificate of Secondary Education BIOLOGY PAPER 3 (PRACTICAL) TIME: 1³/₄ HOURS

(PRACTICAL)

JULY/AUGUST, 2016 TIME: 1³/₄ HOURS

INSTRUCTIONS TO CANDIDATES:

- (a) Write your **name** and **index number** in the spaces provided above.
- (b) **Sign** and write the **date** of examination in the spaces provided above.
- (c) Answer all the questions in the spaces provided.
- (d) Use the first 15 minutes to read through your paper and ensure you have all the chemicals and apparatus needed.
- (e) Students should check the question paper to ascertain that all the papers are printed as indicated and that no questions are missing.

Question	Maximum	Candidate's
	Score	Score
1	13	
2	15	
3	12	
Total Score	40	

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1. You are provided with iodine solution, visking tubing, a beaker and a solution labelled X. Tie one end of the tubing tightly using the thread provided. Measure 5ml of solution X and pour it into the visiking tubing. Tie the other end of the tubing tightly. Ensure there is no leakage. Rinse the outside of the tubing with distilled water and immerse it with its contents in a beaker containing iodine solution. Allow it to stand for 15 minutes.

(a)	(i)	Record your observation at the beginning and end of the experiment			
		in the table below.			(4 marks)
		Experimental set up	Solution X inside	Iodine solution	outside
		Beginning of experiment			2479
		End of experiment			20502
	(ii)	What was the identity of solution X?			(1 mark)
					0 E
	(iii)	Suggest the nature of viski	ng tube.		(1 mark)
					oastoa
	(iv)	Account for the results obt	ained in a (i) above		(4 marks)
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					ers vis
					st pap
					0 0 0
(b)	(i)	Which physiological proce	ess was being invest	igated in this exp	oeriment? (1 mark)
			•••••		
	(ii)	State two factors which aff	fect the process beir	ng investigated.	(2 marks)
				•••••	

2. Study the kidney diagrams below.



	(d)	State two homeostatic functions of the diagram above.		(2 marks)		
		•••••			•••••	
	(e)	(e) Explain what will happen to the process of urine formation in abse vasopressin hormone.			e of (4 marks)	
					02479	
		•••••			call 0	
		•••••			o. Or	
3.	You (a)	You are provided with the following plants: A twig of plant A and plant B. (a) (i) Name the sub-division to which specimen A belong.			(1 mark)	
		(ii)	Using an observable characterist (a)(i) above.	tic only give a reason for your a	answer in (1 mark)	
					isit: www	
	(b)	(b) Name the class to which the two specimens belong.		(2 marks)		
		Α			past	
		B			or free	
	(c)	State	two observable differences betwe	een the leaves of specimen A a	nd B . (2 marks)	
			Leaves of A	Leaves of B	(2 marks)	

The diagrams below shows the cross-section of stems obtained from specimens (d) A and B.



Which diagram represents the stem of each of the specimen? (2 marks) (i) (2 marks) Outline two differences between the two transverse sections. (ii) Р Q csepastpapers.com Suggest the agent of pollination of the flowers of specimen A. (1 mark) papers visi (1 mark) Give a reason for your answer.

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(e)

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