Name	Index No:
231/3	Candidate's Signature
BIOLOGY	Date:
PAPER 3	
PRACTICAL	
MARCH/APRIL- 2017	

TIME: 1 3/4 HOURS

## SACHO HIGH SCHOOL

Kenya Certificate of Secondary Education (K.C.S.E.)

231/3 Biology Paper 3 1 <sup>3</sup>⁄<sub>4</sub> Hours

## INSTRUCTIONS TO CANDIDATES

Write your name and index number in the spaces provided above

Sign and write the date of examination in the spaces provided.

Answer all the questions in the spaces provided.

You are required to spend the first 15 minutes of the 1 3/4 hours allowed for this paper reading the whole paper carefully before commencing your work.

Additional pages must not be inserted.

Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.

Candidates must answer all questions in English

## For Examiners Use Only

Question	Maximum score	Candidate's score
1;	14	
2	13	
3	12	
Total	40	

This paper consists of 6 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing

1.	You are provided with a food sample labelled solution <b>C</b> . Using the reagents p	rovided;
	carry out tests to identify the food substances present in the sample.	(11marks)

TEST FOR	PROCEDURE	OBSERVATION	CONCLUSION
1. Reducing sugars			
2. Ascorbic acid		vesepastpapers.	om
3. Proteins	ast papers visiti. wwi	n.treekcsepastpapers.	

	, the P		
From	the results above		
i)	State the part of the digestive system who	ere the digestion of the f	food substance
	begins.		(2marks)
ii)	Name the deficiency disease arising from	the food substance C.	(1mark)

2. The photographs below show floral structures and germination process. Study them carefully then answer the questions that follow. W L . www.freekcsepastpapers.com PLATE I PLATE II R Q PLATE III a) (i) Describe the type of the ovary in plate I. (1mark)

7	
(ii) With reasons name the agent of pollination of the flower in plate I.	(1mark)
Agent of pollination	
Reasons.	

••••		
••••		(3marks)
(iii) Identify	y the parts labeled in <b>plate I</b> .	(3marks)
W		
D		
L		
b) Plat i)	te III shows a plant obtained from plate II.  Identify the parts labelled.  R	(3marks)
	TQ	3
ii)	Explain the functions of the parts <b>R</b> and <b>T</b> .  R	(2marks)
	T	
	Identify the parts labelled.  R	

3. Below are **diagrams** labelled **(a)** and **(b)** of specimens obtained from an animal. Examine them carefully then answer the questions that follow.

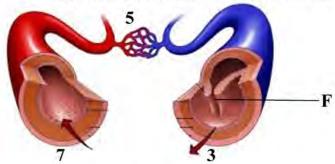
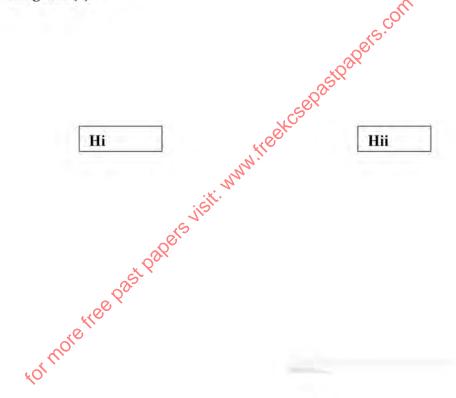


Diagram (a)



## Diagram (b)

(a) (i) In diagram (a), identify the structures labelled.	(3marks)
3	
5	
7	
(ii) Cive a reason for the identities 3 and 7 in (i) above	(2monto)
(ii) Give a reason for the identities 3 and 7 in (i) above.	(2marks)

	•••••		• • • • • • • • • • • • • • • • • • • •
	•••••		
	(iii) Ex	xplain how blood vessel 5 is adapted to its function.	(2marks)
	(iv) Sta	ate the function of the structure labelled <b>F</b> .	(1mark)
			• • • • • • • • • • • • • • • • • • • •
	(v) Ide	ntify the process by which certain materials pass out of structure 5.	(1mark)
(b)	Diagra	am (b)shows the components in diagram (a).	
` '	(i)	Identify structure Hii	(1mark)
		w.	
	(ii)	Using an observable feature only, explain how the structure named	in <b>b(i)</b> above
		is adapted to its function (Imark)	
		<del></del>	•••••
			• • • • • • • • • • • • • • • • • • • •
	(iii)	In what form is carbon(IV) oxide transported in structure Hiiabove	e.(1mark)
	(iv)	Name a hereditary disease represented by structure <b>Hi</b> .	(1mark)
			• • • • • • • • • • • • • • • • • • • •