NAME	INDEX NUMBER	<u>j</u>
CANDIDATE'S SIGNATURE	4	
DATE		
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KENYA CERTIFICATE OF SECON	NDARY EDUCATION	all .
231/3	***************************************	8
BIOLOGY PAPER 3		Ÿ
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ALLIANCE HIGH SCHOOL

1 1/4 Hours

## INSTRUCTIONS TO CANDIDATES

- (a) Write your name and index number in the spaces provided above.
- (b) Answer all the questions in the spaces provided.
- (c) 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.
- (d) This paper consists of 6 printed pages.
- (e) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	11	
2	16	
3	13	
TOTAL SCORE	40	

1. You are provided with substances labeled P and Q (food substances), dilute hydrochloric acid, sodim hydrogen carbonate powder and Benedict's solution.

You are required to carry out tests to determine the food substances in P and Q.

(10 Marks)

Substanæe	Food substance being tested for	Procedure	Observations	Conclusions
P	3			
	*	4 4		
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	1.	Name the region from which the bones were obtained	(1 Mark)	
HALLS	ii.	State the view of specimen K2	(1 Mark)	
 K_	iii.		(3 Marks)	
M_				
	iv.	State three characteristics of the bone in photographs labeled K	(3 Marks)	9
			.5	
			10	•
	3.	You are provided with a specimen labeled V, iodine solution, visking tubing, 50	u	r,
	****	scalpel, glass rod, string, beaker and distilled water.  Make a transverse section of the specimen V.  Disc overlLearn[Apply]	6	
	a)	Draw and label the section	(3 Marks)	

e e

. You are provided with a specimen labeled J.	ж .
) Identify the class to which the specimen belongs.	(1 Mark)
	29 1598
Stroke the specimen on the lateral side from head end to the tail end. Repeat the stroking the head end.	ng from tail end
i) Record your observations.	(2 Marks)
Observe the arrangement of the scales.	
ii) Record your observations.	(1 mark)
	55 54
The scales are arranged facing backwards	,
iii) State the significance of the arrangement of the scales.	
	(2 marks)
11 10018'61 for (6316 COL)	
MANYAM FRANCHISE	
DiscoveriLearntApply	
Using observable features only, state how the animal is adapted to living in its habitat.	(3 Mark:
	*

K			a g
b)	Work out the magnification of your drawing.		(2 Marks)
		29	
c)	What name is given to this type of fruit?		(1 Mark)
			2
22	Slice off about 2cm thick disc from the specimen. Peel it. Place the piece in a beak paste using a glass rod. Add 20ml of distilled water and stir. Tie one and of the traprovided. Decant the extract into the visking tubing and tie the other end tightly. In the Notation of the water. Immerse the tubing with its content in 100ml beaker containing iodine solution 20 minutes.	nspare INSUN tubing	nt tubing RE THERE I with distilled
Record	your observations in the table below  Extract inside the tubing   Iodine solution outside	tubing	
Before	Extract inside the tubing Iodine solution outside experiment	Monig	
	MANYAM FRANCHISE		
	Disc over!Learn!Apply		
After e	xperiment	OTT.)	
		æ	
76		3	
e)	Account for the results obtained above	AC STATE	(3 Marks)
			·