Name:	ATEME	Index no
School:	atio	 Candidate's sign
Date:		
231/3 BIOLOGY 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	o <mark>fi.</mark>	
JULY AUSUST 2011 TIME: 15% HOURS		

RACHUONYO SOUTH DISTRICT JOINT EVALUATION TEST

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

Biology Practical

INSTRUCTIONS TO CANDIDATES:

- Write your name and index number in the spaces provided.
- Sign and write date of examination in the spaces provided above
- Answer all the questions in section A and B
- You are required to spend the first 15 minutes of the 1 ¾ hours allowed for this paper reading the whole paper carefully.

For Examiner's Use Only:

QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
1	14	
2	14	
3	12	
TOTAL	40	

This paper consists of 4printed pages. Candidates should check to ascertain that all papers are printed as indicated and that no questions are missing

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1.	The photographs below sho	wevidences of different	structures that indicate evidence	ces of evolution
	bat wing	Butterfly wing	Bird wing	
More Free 14	THE TOETH	Human arm	Mouse forelimb	
teix teix	A A	B	c	
	D	E		Zi -
	(a) Identify the type of struct	ture represented by photo		(2mks)
	(b) Define each of the type of		etified in(a)above.	
	(c) State and explain the type Photograph 1	e of evolution exhibited		
	Explanation 1 2			
			•••••	

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	(d) List two vestigial structures.	(2mks)
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	(e) List two other evidences of evolution.  Use the photograph below to answer the questions that follow.  F  G  H	(2mks)
	Qa Coll.	
2.	Use the photograph below to answer the questions that follow.	
	St. Ostrico F	
100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 /	M. H	
*05°×26.		
2, 7, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	THE THE PARTY OF T	
	Mouth	
	J	
	(a) Using observable features only, identify the class to which the specimen belongs.	(1mk)
		•••••
	(b) State <b>three</b> observable features you have used to identify the class to which the spe belongs.	ecimen above (3mk)
	(c) (i) Comment on the arrangement of the structures labeled <b>G</b> .	(1mk)
	(ii) State the significance of the arrangement of the structures labelled <b>G</b> above.	(2mks)
	(d) Label the parts <b>F</b> and <b>J F</b>	(2mks)
	J	
	(e) Give the function of the part labeled <b>H</b>	(1mk)

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(ii) From anus				(1mk)
(iii)Using the	measurements in $f(i)$ and $f$	(ii), calculate the t	ail power.	(2mks)
\$	aton.			
	ided with solution A, solute of heat and test tubes.	ion B and reagents	DCPIP, benedicts sol	ution, distilled
	A to Carry out food tests ar			<b>.</b>
Solution	Food substance	Procedure	Observation	Conclusion
À				
В				
(b) Using a c	lean dropper, take a drop o	f colution R and nle	ace on a filter naner w	varm the filter
	er a flame until it is dry.	1 solution B and pie	ace on a finer paper, v	varm the meet
	our observation.			(1mk)
~·		–		
(ii) Give <b>one</b>	functions of the food value	e in solution <b>B.</b>		(1mk)

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