NAME:	INDEX NO:
SCHOOL:	CANDIDATE'S SIGNATURE:
	DATE:

231/3 BIOLOGY PAPER 3 (PRACTICAL) TIME: 1 3/4 HOURS KCSE MOCKS 2017

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## **INSTRUCTIONS TO CANDIDATES:**

- (i) Write your Name and Index Number in the spaces provided.
- (ii) Sign and write the Date of Examination in the spaces provided.
- (iii) Answer all the questions in the spaces provided.
- (iv) You are required to spend the first 15 minutes of the 1 ¾ hours allowed for this paper reading the whole paper carefully before commencing your work.
- (v) Additional pages must not be inserted.
- (vi) This paper consists of 3 printed pages.
- (vii) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

## FOR EXAMINER'S USE ONLY

QUESTION	MAX. SCORE	CANDIDATE SCORE
1	16	
2	12	
3	12	
TOTAL	40	

## **SECTION A (40 MARKS)**

## Answer all questions in this section in the spaces provided.

1. You are provided with photographs of specimens labeled S1, S2, Q, X and Y. Examine them carefully and answer the questions that follow.



 (a) Using observable features in the photographs, complete the dichotomous key given below.
 (3mks)

 1. (a) Leaves parallel veined
 go to 2

 (b) Leaves net veined
 go to 3

 2. (a) Leaves green
 Graminae

 (b) Leaves purple
 Commelinaceae

 3. (a) Leaves simple
 go to 4

 (b) \_\_\_\_\_\_
 go to 5

 4. (a) Leaves margin smooth
 Nyctaginaceae

 (b) \_\_\_\_\_
 Malvaceae

	5. (a) Trifoliate le	eaf	Asteraceae
	(b)		Cassia
	(b) Use the complete specimen belongs	ted dichotomous key to identify the family	to which each (10mks)
	_		,
	SPECIMEN	STEPS FOLLOWED	IDENTITY
	S1		
	S2		
	Q		
	Χ		
	Υ	agasti.	
	(c) State how specime	en S2 is adapted to its mode of pollination.	(3mks)
2.	Below is a photograph	n obtained from the pelvic region of a human been tertebral column. Examine it carefully and answered to the column of the pelvic region of a human been tertebral column.	ing and showing
	(a) Identify the bones	labeled 1, 2 and 3.	(3mks)
	1:		
	2: 3:		
	•		

	(b)			at the pro	eximal end of bone 3 a	s it articulates
		with the adjace				(1mk)
		(ii) Give an obs	servable feature on bo	one 3 for	your answer in (b) (i) a	bove. (1mk)
	(c)	(i) Identify the	part labeled P.			(1mk)
			nctions of the part ide		~	(2mks)
	(d)					
					akise Qasii	
	(e)	(i) Identify the p		why.	,	(1mk)
			nction of the part labe	led Q.		(1mk)
3.	Yo		, V		eled X in solution for	
	(Be	(Benedict's Solution), solution J (DCPIP), Solution K (Sodium hydrogen carbonate),				
		Solution L (1% copper sulphate), solution M (Dilute hydrochloric acid) solution N				
	-	(sodium hydroxide) and filter paper. Carry out tests on the food sample to identify the				
						(12mks)
		ood being	Procedure		Observation	Conclusion
	te	sted for				

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