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NAME:	
SCHOOL:	CANDIDATE'S SIGNATURE:
, set	
SCHOOL:	DATE :
4 ⁴	
231/3	
BIOLOGY	
PAPER 3	

NANDI NORTH DISTRICT JOINT MOCK **EVALUATION TEST 2013**

2h For Nore Free KCSH Dast Kenya Certificate of Secondary Education (K.C.S.E.) BIOLOGY PAPER 3 TIME: 1 ³⁄₄ HOURS

INSTRUCTIONS TO CANDIDATES:

JULY / AUGUST 2013

TIME: 2 HOURS

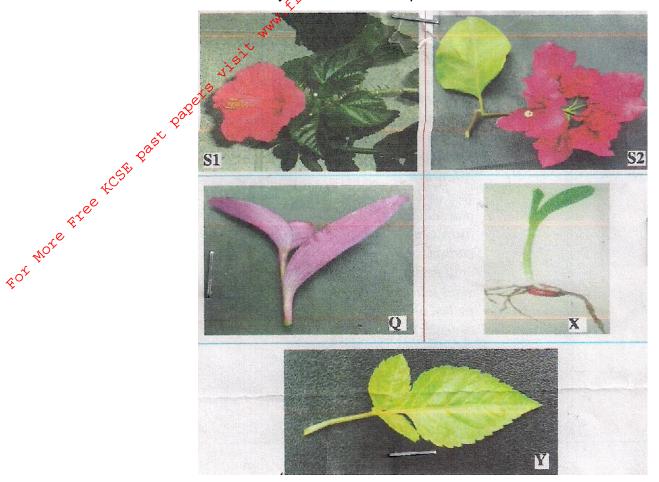
- (i) Write your <u>Name</u> and <u>Index Number</u> in the spaces provided.
- (ii) Sign and write the Date of Examination in the spaces provided.
- (iii) Answer all the questions in the spaces provided.
- (iv) You are required to spend the first 15 minutes of the 1 ³/₄ hours allowed for this paper reading 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.

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

FOR EXAMINER'S USE ONLY

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	e dichotom	ous key
	given l	pelow.		(3mks)
	1. (a)	Leaves parallel veined		go to 2
	(b)	Leaves net veined		go to 3
	2. (a)	Leaves green	Gra	aminae
	(b)	Leaves purple	Commelir	naceae
	3. (a)	Leaves simple		go to 4
	(b)			go to 5
	4. (a)	Leaves margin smooth	Nyctagin	aceae
	(b)		Mal	vaceae
	5. (a)	Trifoliate leaf	Aster	aceae
	(b)		C	assia

		COL	
	(b) Use the d	completed dichotomous key to identify the fam	ily to which each
	specimen t	pelongs.	(10mks)
	SPECIMEN	N STEPS FOLLOWED	IDENTITY
	S1		
	S2	e te	
	Q	riter a	
	X	ie ^{it}	
	Y	· · · · · · · · · · · · · · · · · · ·	
	(c) State now	specimen S2 is adapted to its mode of pollination.	(3mks)
	20 ⁴		
L L	5 [°]		
For More Free 2.	Below is a pho	tograph obtained from the pelvic region of a human	being and showing
s z.	-	f the vertebral column. Examine it carefully and an	
W.	that follow.		
¢ [⊂]	that follow.		
		•2	
		3/	
		not USG	
	(a) Identify the	bones labeled 1, 2 and 3.	(3mks)
	1:		
	2:		
	3:		
	(b) (i) Name t	the type of joint formed at the proximal end of bone	e 3 as it articulates
	with the ad	jacent bone.	(1mk)
	(ii) Give an	observable feature on bone 3 for your answer in (b)) (i) above. (1mk)
	(c) (i) Identify	the part labeled P.	(1mk)
	(ii) Give <u>tw</u>	o functions of the part identified in (c) (i) above.	(2mks)

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رم) Using observable features only, stat <mark>e</mark> how bone 1 is a	dapted to its functions.
25 ^{tpaper}	(2mks)
Cherry Cherry	
(e) (i) Identify the part labeled Q.	(1mk)
(ii) Give the function of the part labeled Q.	(1mk)
<i>A</i>	

3. You are provided with a sample of food labeled X in solution form, solution Y (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 type of food substance present. (12mks)
Food being Procedure Observation

Food being	Procedure	Observation	Conclusion
tested for			