NAME:	xQ <sup>aQe</sup> *	INDEX NO:	
	teel as	-	
ADM. NO	SCHOOL .		

BIOLOGY
PRACTICAL
PAPER 3
JULY / AUGUST 2013
TIME 1 ¾ HOURS

SITE
For More

**SUPA JET MOCK EXAMINATION Kenya Certificate of Secondary Education 2013** 

231/3
BIOLOGY
PRACTICAL
PAPER 3
JULY/AUGUST 2013

## **INSTRUCTIONS TO CANDIDATES**

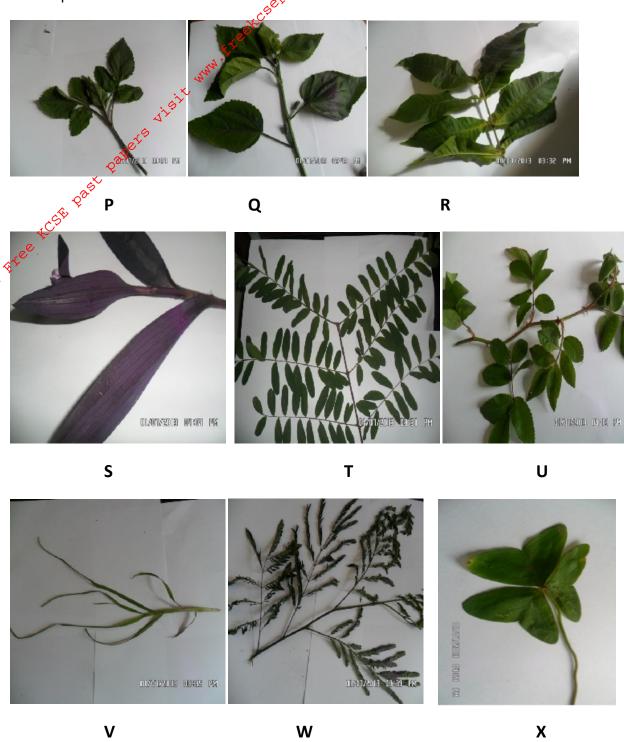
- Write your name and index number in the spaces provided at the top of this page.
- Answer **all** questions.
- You are required to spend the first 15 minutes of the1 ¾ hours allowed for this paper reading the whole paper carefully before commencing your work.
- Answers must be written in the spaces provided in the question paper. Additional pages must not be inserted.
- Candidate may be penalized for recording irrelevant information and for incorrect spelling especially of technical terms

## **For Examiners Use Only**

Question	Maximum Score	Candidate's Score
1	6	
2	18	
3	16	
Total score	40	

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

The photographs below represent twigs from various plant species. Study them and answer the questions that follow



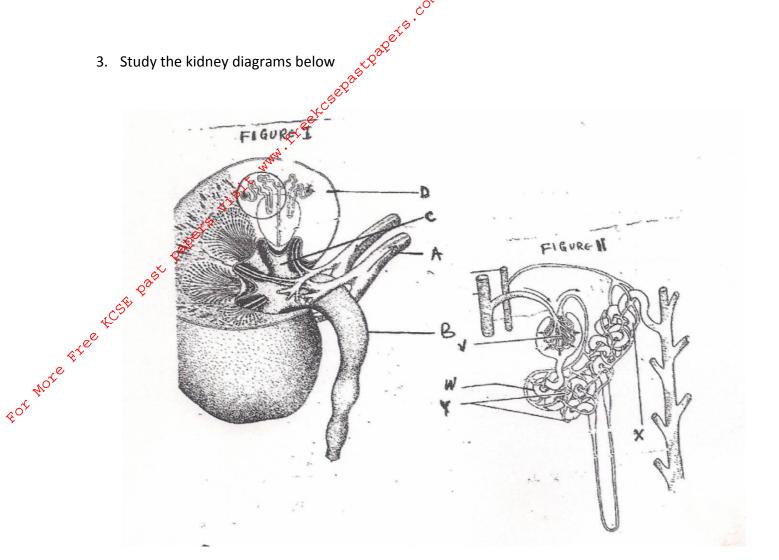
a)	Complete the dichotomous key below usin	g observable features	
	1(a) Twigs with simple leaves	go to 2	
	(b) Twigs with compound leaves		
	2(a) Leaves with parallekvenation	go to 3	
	(b) Leaves with network venation	go to 4	
	3(a) Purple leaves	Tradescantia	
	(b) Green feaves	Kikuyu grass	
	4(a) Leaves with opposite arrangement	Verbenaceae	
	(b)Leaves with alternate arrangement	Hibiscus	
s Æ	5(a) Leaves trifoliate	go to 6	
	(b)	go to 7	
	6(a) Leaves with serrated margin	Bidens bilosa	
	(b) Leaves with lobed margin	Oxalis	
	7(a) Pinnate leaves	go to 8	
	(b)	Acacia	
	8(a) Leaflets with rounded apex	Papilionaceae	
	(b) Leaflets with pointed apex	Rose	
		(2mks)	1
b)	Using the completed dichotomous key iden	tify the twigs and show the steps followed	(4mks)
	Identity	steps followed	
	P		
	Q		••
	Т		

U.....

	2 V	ou are provided with specimen labeled E, examine specimen E			
	2. Yo	Giving assessment identify the attraction of the factor.	(2.55)		
	a)	Giving reasons, identify the type of the fruit?	(2mks)		
		Color			
		Arand.			
			(4 1 )		
	b)	Cut a transverse section through <b>specimen E</b> , make a well labeled diagram	(4mks)		
		Cut a transverse section through <b>specimen E</b> , make a well labeled diagram			
		and the second s			
	SE	· Control of the cont			
_0	s FC				
& Lo					
sce					
	c)	State the type of placentation of <b>E</b>	(1mk)		
	٠,		(=)		
	۷)	i) Name the agent of dispersal for E	/1 m/s)		
	u)	i) Name the agent of dispersal for <b>E</b>	(1mk)		
		ii) State how <b>E</b> is adapted to its mode of dispersal	(2mks)		

e) Squeeze out the juice from <b>specimen E</b> into test tubes and fill in the table below (6mks)				
Food test	Procedure	Observation	Conclusion	
Ascorbic acid page Reducing sugars	Procedure  Agerts vilsit una.			
Protein				

F)	i) Suggest the expected result if the juice of <b>E</b> was boiled for 10 minutes, cooled then <b>DCPIP</b>			
	Solution added drop by drop	(1mk)		
	ii) Explain your answer in f(i) above	(1mk)		



)	i) Name the parts labeled <b>A</b> , <b>B</b> , <b>C</b> and <b>D</b> in figure 1	(4mks)
	A	
	B	
	C	
	D	
	ii) Name the processes that take place in the parts labeled	(2mks)
	V	
	X	

	b)	State three adaptations of the part abeled <b>W</b>	(3mks)
		c section and the section and	
		K. J. ee J. C.	
		Mith.	
	c)	On the diagram name the part where counter current flow occurs	(1mk)
ote Étee	(g)	A STATE OF THE STA	(2mks)
₹¢,			
10,			•••••
	e)	Explain what will happen to the process of urine formation in absence of vaso	pressin
		hormone.	(4mks)