Name:	re:	Index No:
Candidate's Signatur	re: <sup>X</sup> E <sup>20*</sup>	Date:
231/1 BIOLOGY Paper 1 Time: 2 Hours	SS COUNTRY  Kenya Certificate of Secondary	
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KCSE Dast D		
ote CRO	SS COUNTRY	<b>EXAMS 2015</b>
	Kenya Certificate of Secondary	Education (K.C.S.E)

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**BIOLOGY** Paper 1 **Time: 2 Hours** 

## **INSTRUCTIONS TO CANDIDATES:**

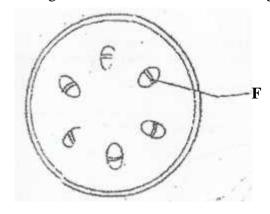
- Write your name and Index Number and School in the spaces provided above.
- Answer all the questions
- All answers must be written in the spaces provided in this booklet.
- Sign and write the date of examination in the spaces provided above.
- Additional pages must not be inserted

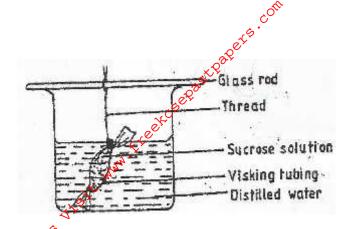
## **EXAMINER'S USE ONLY**

Question	Maximum score	Candidates Score
1 - 29	80	

1.	State the branch of Biology that would be used in solving the problem of disputed paren	tage. (1mk)
	Se Contraction of the Contractio	
2.	(a) What is the formula of calculating linear magnification of a specimen when using a l	
	with.	(1mk)
	J <sup>i</sup> B <sup>i</sup>	
	Let's	•••••
	(b) Give a reason why staining is necessary when preparing specimens for observation u	nder the
	mieroscope	(1mk)
	Les .	
3e	State <b>two</b> functions of Golgi apparatus.	(2mks)
410		
,		
4.	State the importance of the following processes that take place in the nephrons of a hum	
	Ultra filtration	(1mk)
	Selective reabsorption	(1mk)
		. ,
5.	(a) Name a disease of the liver whose symptom is jaundice	(1mk)
	(b) State the causative agent of:	(1mk)
	(i) Cholera	(1mk)
	(ii) Candidiasis	(1mk)

6. The diagram below shows a section through a plant organ

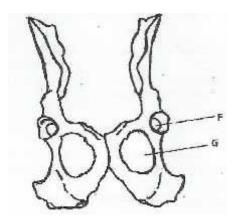




The set up was left for 30 minutes. State the expected results. (a) (1mk) ..... Account for your answer in (a) above (2mks) ..... ..... State **two** structural modifications of nephrons found in desert mammals (2mks) 22. State **two** characteristics of Monera that are not found in other kingdoms (2mks) Name the class to which a termite belongs (b) (1mk)

.....

23. The diagram below shows two fused bones of a mammal



(a)	(a) Identify the fused bone		
(b)	Nam (i)	Bone that articulates at point labeled ${f F}$	(1mk)
••••	(ii)	Type of the joint that is found at the point labeled ${f F}$	(1mk)

				net &			
	(ii	i) The hole	labeled <b>G</b>	ge Pat Lak			
24.		structure in t	√(				•••
	a. So	und waves	<i>4</i> ,			(1ml	<u>(</u> )
	b. C	hange in postu	ure,∻			(1ml	
25.			, <i>6</i> ′			ction for propagation. The	
	chrom	osome pambe	er of the cell in	the ovarian wall i	s 16. How many	chromosomes are in	
	(a)	The pollen to	ube nucleus.			(1mk	()
	105°E						•••
^<	e (b)	A cell of the				(1mk	<u>(</u> )
oze ez							
26.	The di		represents an e				•
	(i)	Name the ey	re defect repres	ented		(1mk	<b>(</b> )
	 (ii)		defect be corre			(1mk	
27.	(a)			ation and commu		(2mk	
	(b)	Name the me	ethod that can I	be used to estimat	e the population :	size of the following organism	S
			in a pond			(1mk	,
		(ii) Black	k jack in a gard	len		(1mk	(۲
28.	(a)		al has blood gro		••••••		•

(1mk)

(b) Which of the parts labelled above is fertilized to form a diploid zygote.