	Z. So.	
NAME:		ADM NO:
SCHOOL:	e e e e e e e e e e e e e e e e e e e	STREAM:
INDEX NO:	May 1.00	
231/2 BIOLOGY Paper 2 May 2014 2 2 HOURS	Recentient	
2 HOURS		DINT PRE-MOCK EXAMINATIONS 2014

## INSTRUCTION TO CANDIDATES

Answer ALL questions in section A. In section B answer question 6 (compulsory) and either question 7 or 8 in the spaces provided after question 8.

SECTION	QUESTION	MAX. SCORE	CANDIDATE'S SCORE
A	1	8	
	2	8	
	3	8	
	4	8	
	5	8	
В	6	20	
	7	20	
	8	20	
TOTAL		80	

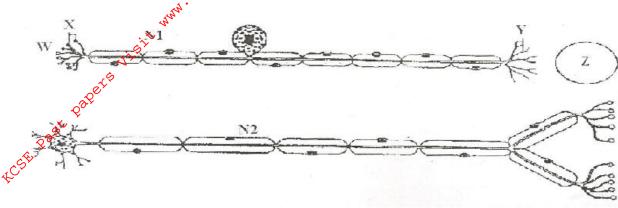
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Calcium Chloride

1.	A climbing plant twines around the stem of a tall tree.					
	(a) (i) Name the type of response exhibited by the climbing stem.	(1 mark)				
	(11) Explain how the response named in (a) (1) above takes place.	(3 marks)				
4CSE	08					
, t <sub>C</sub> ,	(b) An experiment was carried out to investigate the response of certain stimulus. Ten termite were placed at the centre of glass tub	of white termites to a				
	was placed one end of the tubing and moist cotton wool at the other end as illustrated					
	below.					
	Glass Tubing					

	Chloride	P 0 0 0	Cotton
		Termites	
(i)	What observations are m	nade after 20 minutes?	(1 mark)
(::\	What type of response is	a avhibited by the termites?	
(ii)	what type of response is	s exhibited by the termites?	(1 mark)
(iii)	What is the survival valu	ue of the above response?	(1 mark)
(iv)	What is Photonasty?		(1 mark)
(11)	······································		(1 mark)

Moist



4 .ee		
iote titee	(a) (i) Identify the type of neurons illustrated in diagrams N1 and N2.	(2 marks)
	N1:	
	(ii) Provide two reasons for your identity of the neuron in diagram N1.	(2 marks)
	(b) Name each of the structure labeled X and Y in diagram N1.	(2 marks)
	X:	
	Y:	
	(c) Give the general name of the type of cell at position Z in diagram N1.	
	(d) Give the general name of the substance in position W in diagram N1	(1 mark)

## SECTION B (40 MARKS)

Answer question 6 (compulsory) in the spaces provided. Answer either question 7 or 8 in the spaces provided after question 8.

6. An investigation was conducted to compare water rate of water loss from twigs of two different species of plants Q and L. the twigs had equal leaf surfaces. The results of the investigation were recorded in the below.

Time of the	6 a.m	8 a.m	10 a.m	1 p.m	12 p.m	1 p.m	2 p.m	3 p.m	6 p.m	8 p.m	12 a.m
day Rasi											
Water loss	0	4	20	40	55	36	26	20	2	0	0
Water loss gh -h Species L	8	20	39	131	198	182	130	81	45	12	12

(a)	On the graph paper provided on page 7, plot a graph of Water loss gh <sup>-n</sup> aga	inst time for
	the two plants.	(7 marks)
(b)	Name the apparatus which might have been used to investigate the rate of	water loss.
		(1 mark)
(c)	State two precautions that were taken in setting up the experiment.	(2 marks)
	Which of the plant species is likely to be adapted to arid conditions? Give	a reason.
		(2 marks)
		• • • • • • • • • • • • • • • • • • • •
	Use the graph to answer the following questions:	
	(i) At what time of the day was 60gh <sup>-1</sup> of water lost by plant species L	?

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