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231/2
BIOLOGY
Paper 2(Theory)
July / August 2011
Times 2 Hours

LOWER YATTA DISTRICT JOINT EVALUATION EXAM- 2011

Kenya Certificate of Secondary Education (K.C.S.E)

BIOLOGY Paper 2 (Theory) Time: 2 Hours

Instructions to candidates

- Answer all questions in section A by filling in the spaces provided.
- In Section B, Answer Question 6 (Compulsory Question) and any other **One** Question from the remaining two Questions.

(i.e. 7 or 8)

FOR EXAMINER'S USE ONLY

Section	Question	Maximum score	Candidates score
A	1	8	
	2	8	
	3	8	
	4	8	
	5	8	
	6	20	
В	7	20	
	8	20	
	Total Score	80	

This paper consists of 8 printed pages.

Candidates should check to ensure that all pages are printed as indicated and no questions are missing

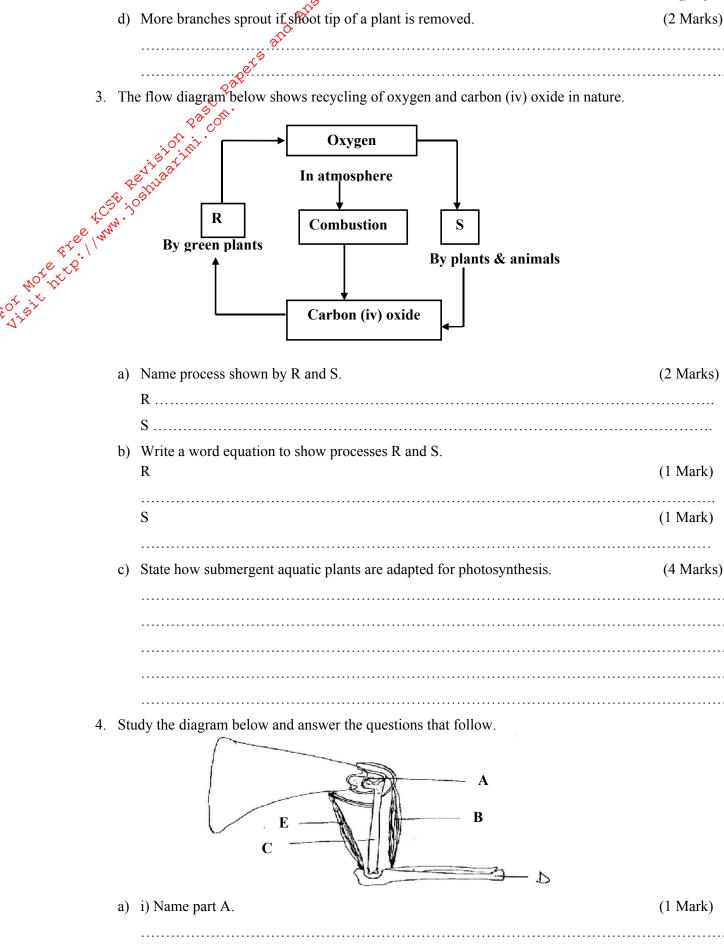
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Turn Over

Answer <u>ALL</u> questions in this section in the space provided below.

	1. Th	ne diagram below shows a neurone.	
	CSE X	A B	
size /	una)	i) Identify the neurone.	(1 Mark)
notetto.		ii) Give a reason for your answer.	(1 Mark)
	b)	Name parts A and B.	(2 Marks)
		A B	
	c)	On the diagram show the direction of impulse.	(1 Mark)
	d)	State three differences between nervous and endocrine forms of communication.	(3 Marks)
	2. Ex	aplain the following observations.	
		Some plants have stomatal rhythm reversed.	(1 Mark)
	b)	One feels cold when skin surface is smeared with ethanol.	(3 Marks)
	c)	Red blood cells put in distilled water haemolyse.	(2 Marks)

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SECTION B (40 MARKS)

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

6. In an experiment 1000 viable seeds of beans were divided into groups 100 seeds each. Each group of seeds was placed at different temperatures but same conditions of air and moisture. Percentage germination was determined after 7 days. The results are shown in the table below.

, 0										
Temp °Co	0	5	10	15	20	25	30	35	40	45
Percentage germination	0	0	2	5	16	50	84	30	2	0

(sa)' Using suitable scale plot the results on a graph paper (6 Marks)

	b)	Account for percentage germination at;	
		i) 5°C. att	(2 Marks)
		20te	
		oot of.	
		ii) State the observation if acacia seeds were used instead of bean seeds. ii) Give a reason for your answer in (i) above	(2 Marks)
	\$ \$	ostric	
\$ (*)	Cara .		
χe χθ. //	c)	i) State the observation if acacia seeds were used instead of bean seeds.	(1 Mark)
10, 4x			
67		ii) Give a reason for your answer in (i) above	(2 Marks)
		ii) Give a reason for your answer in (i) above.	(2 Marks)
	d)	Explain how percentage germination was determined.	(4 Marks)
	e)	State two internal causes of seed dormancy.	(2 Marks)
	f)	What is scarification?	(1 Mark)
		plain how seeds and fruits are adapted for dispersal.	(20 Marks)
8		Describe how mammalian ear is adapted for hearing.	(18 Marks)
	b)	State two functions of mammalian ear other than hearing.	(2 Marks)