WASSCE / WAEC MAY / JUNE 2006 BIOLOGY PAPER 2 SECTION B (THEORY)

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SECTION B

ESSAY [60 marks]

1½ hours

Answer three questions in all; two questions in Part I and one question in either Part II or Part III.

No marks will be awarded for answering questions not peculiar to your own country.

Write your answers in ink in your answer booklet.

Large labelled diagrams should be used where they make an answer clearer. The names given for chosen species must be English or Scientific and not vernacular.

All questions carry equal marks.

Credit will be given for clarity of expression and orderly presentation of answers.

PART I

FOR ALL CANDIDATES

STATE			Answer two questions only from this part.	
	1.	(a)	(i) List the functions of a typical foliage leaf.	[4 marks]
STATE STATE OF	SOUR	CE:\	(ii) Name three types of leaf modifications giving one example in each case. WWW.LARNEDU.COM Make a diagram 8 10 cm line of the feet of	[6 marks]
	7-		Make a diagram $8 - 10$ cm long, of the female reproductive part of a flowering plant and label fully.	[7 marks]
12 12 12 12 12 12 12 12 12 12 12 12 12 1		(c)	Name three plants that are pollinated by insects.	[3 marks]
	2.	(a)	(i) Describe three features of a typical vertebra.	[6 marks]
			(ii) Name three types of skeletons found in animals, and in each case name one animal which possesses it.	
		(b)	(i) State four functions of the mammalian skeleton. Nelps le ste	[6 marks]
			(ii) Name four types of joints found in the mammalian skeleton.	[4 marks]
	3.	(a)	Write short notes on each of the following:	
			(i) ecosystem;	
			(ii) population; (iii) ecological succession in plants.	15 marks]
		<i>(b)</i>	List five ways by which nitrogen can be made available to the soil for plant growth.	in C
			growin.	[5 marks]
THE REAL PROPERTY.	4.	(a)	Explain the term, conservation of natural resources.	[2 marks]
		(b)		[7 marks]
To A			(ii) Name four other natural resources that may be conserved.	[4 marks]

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(c) State three factors which negatively affect conservation of forest in West Africa.	[3 marks]
(d) Describe what happens during the denitrification stage of the nitrogen cycle.	[4 marks]
PART II	Her director of
For Candidates in Ghana	The space of the
SIERRA LEONE AND THE GAMBIA	randonia signical
Answer one question only from this part.	A division NA
5. (a) Explain the role of each of the following groups of organisms in an ecosyste	em:
(i) green plants;	
(ii) herbivores;	
(iii) carnivores;	[8 marks]
(iv) decomposers.	[8 marks]
(b) List four biotic and abiotic factors each that affect population growth.	[4 marks]
(c) List four effects of food shortage on a population.	[, marke]
6. (a) (i) What is dentition?	[2 marks]
(ii) State the two types of dentition in animals.	[2 marks]
(iii) Explain how the dentition of a carnivore is adapted to its mode of nutrition.	[12 marks]
(b) State four ways of caring for the teeth in humans.	[4 marks]
PART III	Same and the same a
FOR CANDIDATES IN NIGERIA ONLY	
Answer one question only from this part.	Jan gla
The interest of the mean to the control of the second	[3 marks]
7. (a) What is a hormone? (b) Outline the role played by adrenaline in an emergency situation.	[7 marks]
(b) Outline the role played by adjetantie in an emergency standard co-ordination and	d. orga
(c) In a tabular form, list five differences between hormonal co-ordination and nervous co-ordination. (d) Nome three animal hormones and two plant hormones.	sens [5 marks]
(d) Name three animal hormones and two plant hormones.	[5 marks]
8. (a) (i) Briefly explain the term respiration.	[4 marks]
8. (a) (i) Briefly explain the term respiration. (ii) Name the two types of respiration and write a balanced equation to summarize each of them.	[6 marks]
(b) Outline the mechanisms involved in:	
(i) inhalation;	7
(ii) exhalation in human beings.	[10 marks]
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