UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

ENVIRONMENTAL MANAGEMENT

Paper 1



October/November 2005

1 hour 30 minutes

Candidates answer on the Question Paper. Additional Materials: Ruler (cm/mm)

Candidate Name		
Centre Number	Candidate Number	

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in. Write in dark blue or black pen in the spaces provided on the Question Paper. You may use a soft pencil for any diagrams, graphs or rough working. Do not use staples, paper clips, highlighters, glue or correction fluid.

Answer all questions.

The number of marks is given in brackets [] at the end of each question or part question.

DO NOT WRITE IN THE BARCODE.

DO NOT WRITE IN THE GREY AREAS BETWEEN THE PAGES.

If you have been given a label, look at the details. If any details are incorrect or missing, please fill in your correct details in the space given at the top of this page.

Stick your personal label here, if provided.

FOR EXAMINER'S USE		
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6		
TOTAL		

This document consists of 13 printed pages and 3 blank pages.

(a) Study the information below, which refers to five areas of the world.

a) Study the information beli	2 ow, which refers to	five areas of the w	vorld.	Da Cambrida
Area	Life expectancy	Adult literacy (%)	Income per head (\$US)	103
Middle East	66	60	2200	
Industrialised countries	76	98	20900	
Latin America	69	88	3830	
South-East Asia	66	88	1130	
Sub-Saharan Africa	49	58	530	

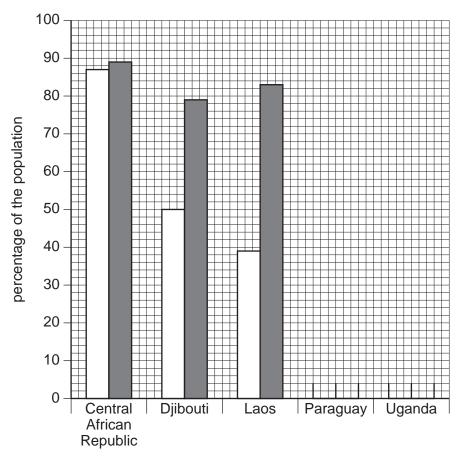
(i) W	hich area has the lowest life expectancy?
	[1]
(ii) St	ate the relationship between the adult literacy rate and income per head.
•••	
	[1]
	ame one area which seems to be an exception to the relationship you have ated in (a)(ii).
	[1]
(b) (i) Su	uggest two measures of the quality of life not mentioned in the table above.
•••	
•••	[2]
(ii) Su	uggest how rapid population growth may affect quality of life.
•••	
	[2]

	Suggest how improved trade might help to overcome world inequalities.	
	3	
(c)	Suggest how improved trade might help to overcome world inequalities.	B. S
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	[3]	
	Total [10]	

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2 The graph below shows information about clean water supplies for five countries.

Selected countries: % of the population without access to clean water



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urban areas

	rural	areas
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Country % urban		% rural
Paraguay	35	93
Uganda	55	88

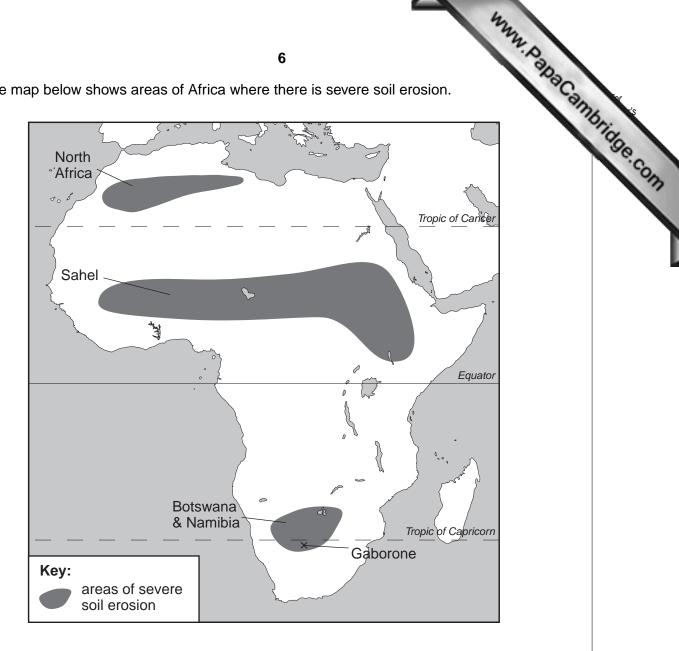
(a) (i) Complete the graph to show the figures for Paraguay	/ and Uganda.
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[2]

(ii)	What conclusion can you draw from the graph about access to clean water in rural
	and urban areas? Give reasons for your answer.

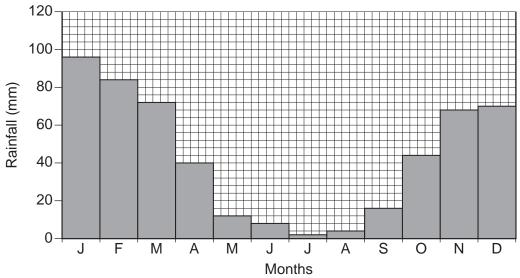
	Explain why access to clean water is important for human health.	
(b)	Explain why access to clean water is important for human health.	
		Bridge
		S.COM
	[2]	
(c)	Describe one strategy for improving water quality in developing countries.	
	[3]	
	Total [10]	

The map below shows areas of Africa where there is severe soil erosion.



(a) (i)	Describe the location of the main areas of severe soil erosion		
			•
			•
		[2]	۶.

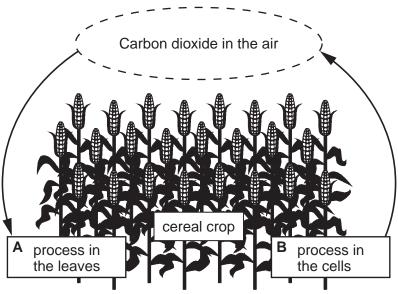
(ii) The city of Gaborone is marked on the map. Below is a rainfall graph for the around Gaborone.



	Explain why severe soil erosion is likely to occur in this area in January and	July.
	January	
	July	
		[3]
(b)	Explain how one agricultural practice can increase the risk of soil erosion.	
		[2]
(c)	Suggest strategies which could help to reduce the problem of soil erosion.	

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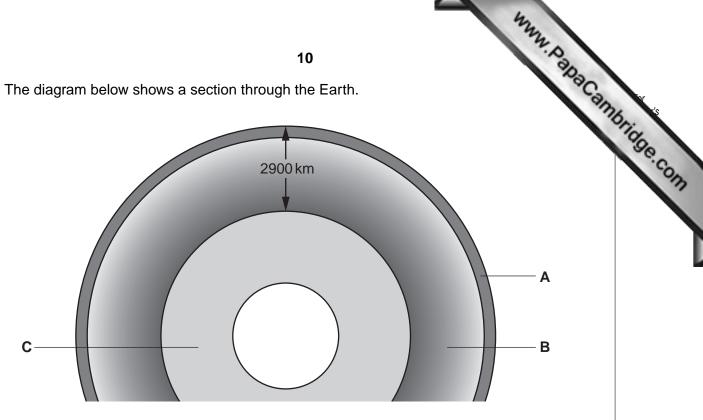
4 Look at the diagram below. It shows the relationship between carbon dioxide in the accreal crop.



(a)	Give	e the names of the two processes A and B , shown on the diagram.
	A is	
	B is	[2]
(b)		crop like this, the amount of carbon dioxide given out by process B is equal to the bunt of carbon dioxide taken in by process A . The two are in balance.
	(i)	If more carbon dioxide was given out by process ${\bf B}$ than was taken in by process ${\bf A}$, what would happen to the amount of carbon dioxide in the atmosphere?
		[1]
	(ii)	What would be the result of what you have said in (b)(i) for world temperatures and world sea levels? Explain your answers
		[41]

(c)	been removed from the land. This is called DEFORESTATION.	3
	State one possible effect of deforestation on the wildlife of an area. How might this effect on wildlife be reduced?	Oridge COM
	[3]	
	Total [10]	

5 The diagram below shows a section through the Earth.

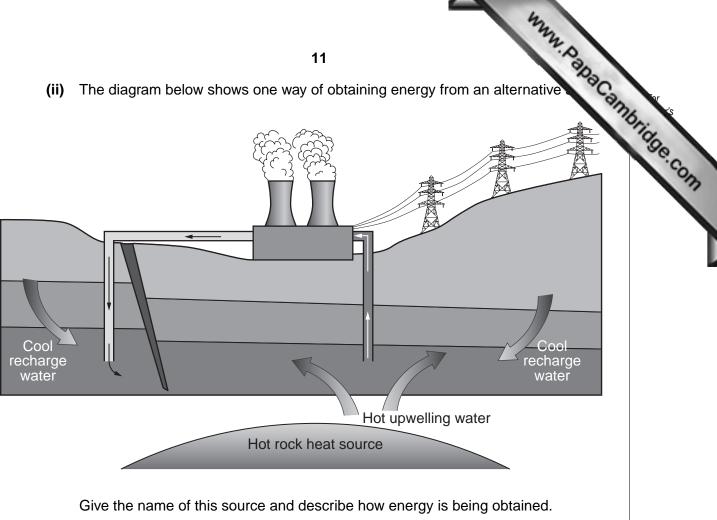


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(a)	(1)	Name the p	iaris oi me		illeu A. E	anu C.

	A	
	В	
	C	[3]
(ii)	In which of the labelled parts would fossil fuels and minerals be found?	
		[1]
(iii)	Name two fossil fuels.	
		[1]

- (b) Because of environmental problems caused by fossil fuels, alternative energy sources are being developed.
 - (i) Describe one environmental problem caused by the use of fossil fuel.[2]

(ii) The diagram below shows one way of obtaining energy from an alternative



live the name of this source and describe how energy is being obtained.
[3]
Total [10]

The article below concerns the impact of tourism in Goa (India). 6

www.PapaCambridge.com "By the year 2000 more than 5 million tourists had visited Goa. Tourism Concern says Goa's 'fragile ecology and unique culture are being destroyed by hotel owners eager to cash in on the growing numbers of tourists'. Hotels have been built illegally on the beach, beaches have been closed to locals, threatened mangrove and wet land areas have been unlawfully reclaimed, trees felled and dunes flattened. Sewage is being discharged on to beaches and is leaking into rice fields. Sand has been quarried from the beaches."

(a)	Sta	te three ways in which Goa's environment is being damaged by tourist development.
		[3]
(b)	(i)	Explain what is meant by the term ecotourism.
		[2]
	(ii)	How could the authorities in Goa continue to attract tourists whilst at the same time preserving the environment?
		[2]

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Question 3 Diagram © D. Waugh and T. Bushell, *New Geography*; Nelson Thornes, 2002.

Question 5 Taken from website, http://geosun1.sjsu.edu/~dreed/images/exer2/earth-layers.GIF

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