

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		

186916151

ENVIRONMENTAL MANAGEMENT

0680/01

Paper 1

May/June 2009

1 hour 30 minutes

Candidates answer on the Question Paper.

Additional Materials:

Ruler

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.

You may use a soft pencil for any diagrams, graphs or rough working.

Do not use staples, paper clips, highlighters, glue or correction fluid.

DO NOT WRITE IN ANY BARCODES.

Answer all questions.

At the end of the examination, fasten all your work securely together.

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

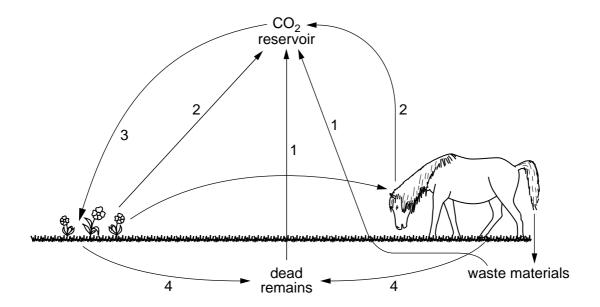
For Exam	iner's Use
1	
2	
3	
4	
5	
6	
Total	

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



1 The diagram shows the carbon cycle.

For Examiner's Use

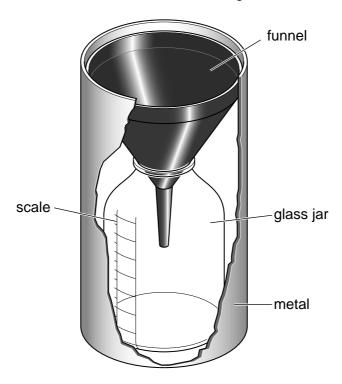


a) (i)	Where, in the diagram, is the carbon dioxide reservoir for land plants?
	[1]
(ii)	Name the processes shown by 1, 2, 3 and 4.
	1
	2
	3
	4[2]
(iii)	Processes 1 and 2 show how carbon dioxide is returned into the reservoir. Process 3 shows it being removed. For thousands of years the loss and the gain have been in balance, but this is no longer true. Explain why.

(b)	(i)	Explain how this lack of balance between carbon dioxide loss and gain might lead to climate change.	For Examiner's Use
		[3]	
	(ii)	State one way people might take action to reduce this problem of climate change.	

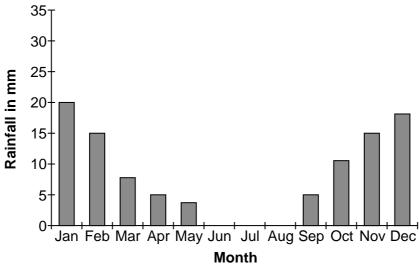
2 The diagram shows an instrument used for measuring rainfall.

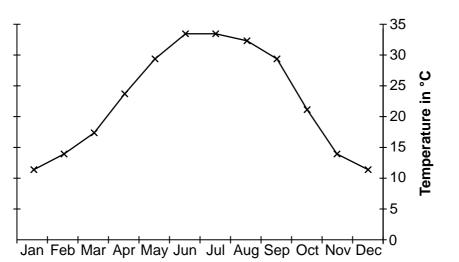




(a)	(i)	Describe where you would place this instrumeasurements.	ment in order to obtain accurate
			[2]
	(ii)	Describe how a person would take accurate, da	aily readings.
			[2]

The graphs shows the climate for a location in the Northern Hemisphere.





Month

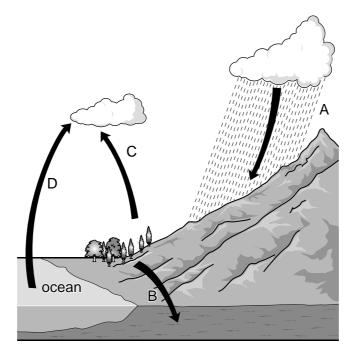
For Examiner's Use

(b)	(i)	Describe the annual pattern of rainfall.
		[2]
	(ii)	What would farmers need to do to grow good crops throughout the year in a climate such as this?
		[1]
	(iii)	State one other way in which farmers might be able to increase crop yield.
		[1]
(c)	Des	cribe another use for a crop other than food for people or feed for animals.
	Nan	ne of crop
		[2]

3 Study the diagram below of the water cycle.



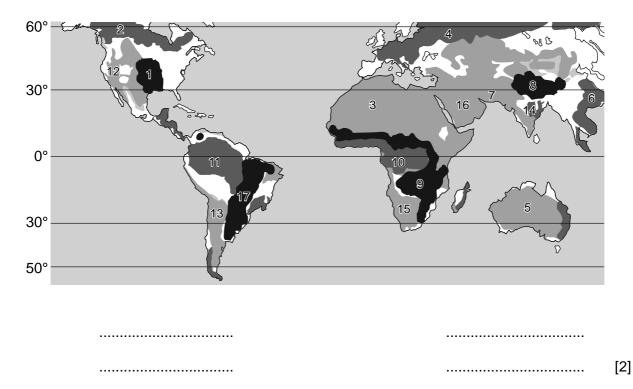
[3]



(a) (i) Name the processes

A		
В		
C		
0		
D		

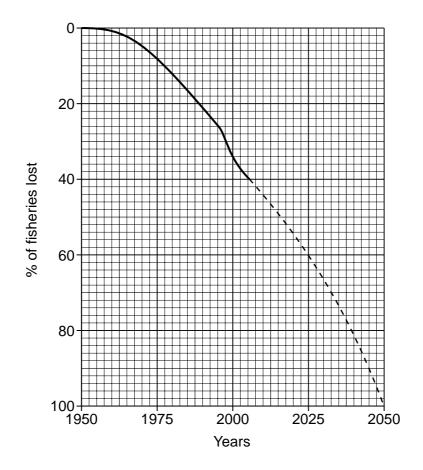
(ii) Study the map below and list the numbers of four areas with low precipitation.



(b)	Even in areas of high precipitation, water may not be of good quality for human use. Two problems are <i>pollution</i> and <i>water related diseases</i> .		
	(i)	Name one water pollutant and state one way it affects humans.	Use
		[2]	
	(ii)	Name one water related disease.	
		[1]	
	(iii)	How might the water related disease you have named be controlled?	
		[2]	

4 Study the graph below of world losses of fisheries.

For Examiner's Use



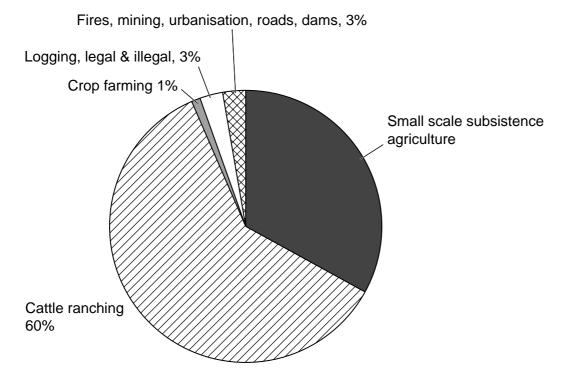
(a) (i)	What percentage of world fisheries was lost by 2000?
	[1]
(ii)	What will the expected percentage loss be by 2025?
	[1]
(iii)	State and explain two reasons for the loss of fisheries since 1950.
	141

(b)	(i)	Fish is an important source of food for humans, so more effort needs to be put into sustainable fishing. State two strategies for sustainable fishing.	For Examiner's Use
		[2]	
	(ii)	Suggest two reasons why these strategies are not always successful.	

5 The diagram shows the main causes of deforestation in the Amazon Rainforest.

For Examiner's Use

[2]



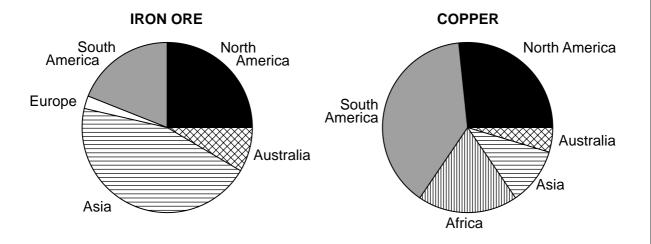
(a) (i) Calculate the percentage of deforestation in the Amazon caused by small scale subsistence agriculture (Show your working).

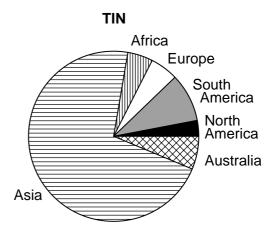
(ii)	What is meant by 'subsistence agriculture'?	
		മാ

(b)	(i)	Other than the loss of habitat and soil erosion, how else might cattle ranching affect the environment? Explain your answer.	For Examiner's Use
		[2]	
	(ii)	State one way of reducing the effects of logging on the environment.	
		[1]	
	(iii)	Describe how logging in Tropical Rainforest could be reduced.	
		[3]	

6 Study the following diagrams showing the world distribution of deposits of iron ore, copper and tin.

For Examiner's Use





(a) (i) Which continent has the largest deposit of:

.....

iron ore

	copper		
	tin		[3]
(ii)	All the above minerals are described as metallic minerals, name one non-metallic mineral and give one of its uses.		
	•••••		

For Examiner's Use

(a)	environment. State one negative impacts on the miners and the			
	(i)	deep mining on miners		
		[1]		
	(ii)	open cast mining on the environment		
		[1]		
(c)	Des	Describe ways of improving the environment when opencast mining has stopped.		
		[3]		

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