

# UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

CANDIDATE NAME						
CENTRE NUMBER				CANDIDATE NUMBER		

## **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	

[Turn over

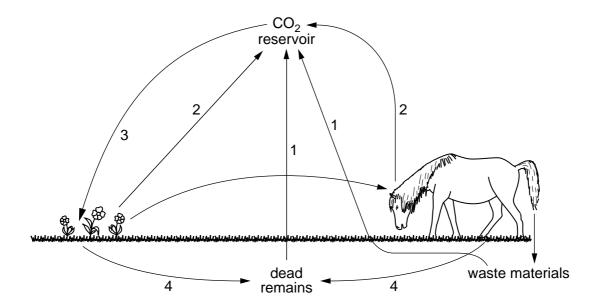


SP (NF/CGW) T76668/3

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1 The diagram shows the carbon cycle.

For Examiner's Use

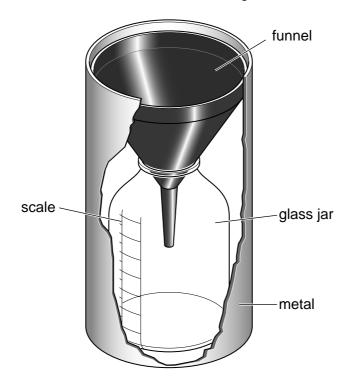


a)	(1)	Where, in the diagram, is the carbon dioxide reservoir for land plants?	
		[	1]
	(ii)	Name the processes shown by 1, 2, 3 and 4.	
		1	
		2	
		3	
		4	2]
	(iii)	Processes 1 and 2 show how carbon dioxide is returned into the reservoir. Process shows it being removed. For thousands of years the loss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

[3]	
(ii) State one way people might take action to reduce this problem of climate change.	

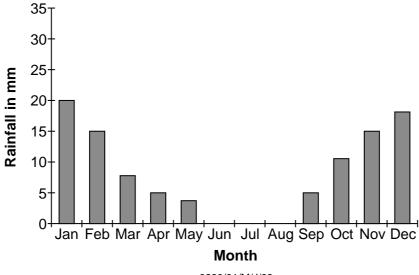
2 The diagram shows an instrument used for measuring rainfall.





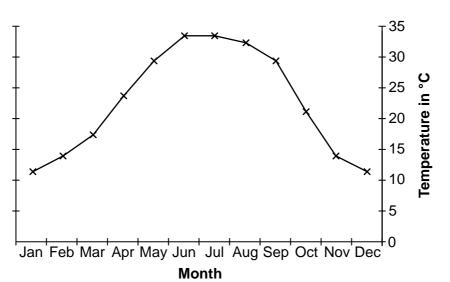
(a)	(i)	Describe where you would place this instrument in ord measurements.	ler to	obtain	accurate
					[2]
	(ii)	) Describe how a person would take accurate, daily readings.			
					[0]

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



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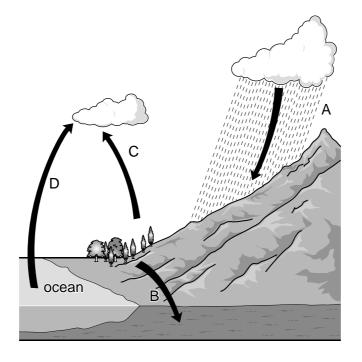


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(b)	(i)	Describe the annual pattern of rainfall.
		[2]
	(ii)	What would farmers need to do to grow good crops throughout the year in a climate such as this?
		[1]
	(iii)	State <b>one</b> other way in which farmers might be able to increase crop yield.
		[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.

For Examiner's Use

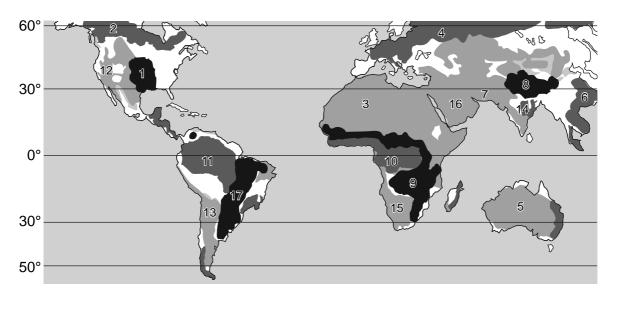


(a) (i) Name the processes

Α	
В	
С	
Ы	

[3]

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



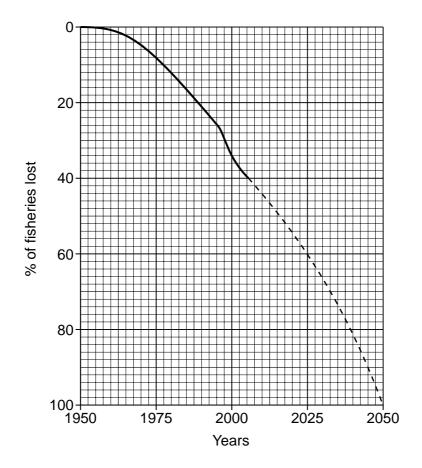
.....

.....[2]

(b)		n in areas of high precipitation, water may not be of good quality for human use. Two blems are <i>pollution</i> and <i>water related diseases</i> .	For Examiner's Use
	(i)	Name <b>one</b> water pollutant and state <b>one</b> way it affects humans.	
		[2]	
	<b>(::</b> )		
	(ii)	Name <b>one</b> 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



[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.

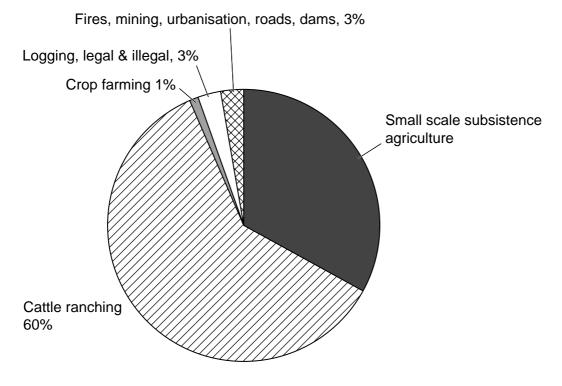
(a) (i) What percentage of world fisheries was lost by 2000?

(b)	(i)	Fish is an important source of food for humans, so more effort needs to be put into sustainable fishing.  State <b>two</b> strategies for sustainable fishing.	For Examiner's Use
		[2]	
	(ii)	Suggest <b>two</b> reasons why these strategies are not always successful.	
			1

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

For Examiner's Use

[2]



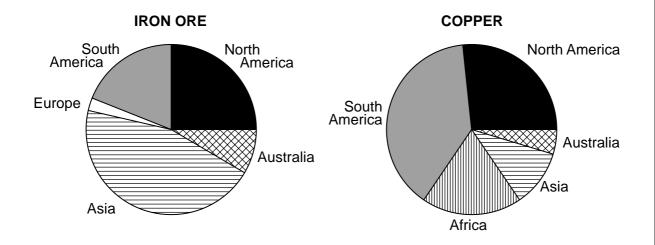
(a) (i) Calculate the percentage of deforestation in the Amazon caused by small scale subsistence agriculture (Show your working).

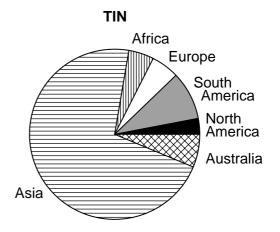
(ii)	What is meant by 'subsistence agriculture'?
	[2]

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 <b>one</b> way of reducing the effects of logging on the environment.	
(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 <b>one</b> non-metamineral and give one of its uses.		

For Examiner's Use

(a)		ironment. State <b>one</b> negative impact of
	(i)	deep mining on miners
		[1]
	(ii)	open cast mining on the environment
		[1]
(c) Describe ways of improving the environment when opencast mining has sto		scribe ways of improving the environment when opencast mining has stopped.
		[3]

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