

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

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CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		

## **ENVIRONMENTAL MANAGEMENT**

0680/01

Paper 1

May/June 2007

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.

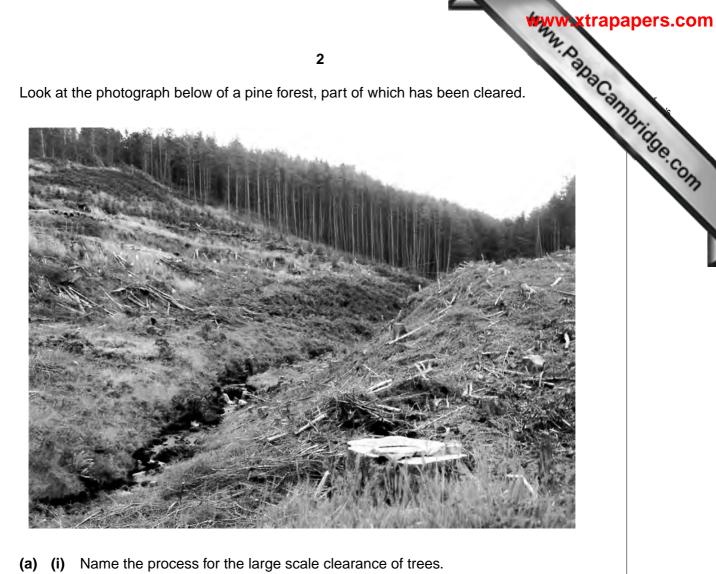
The number of marks is given in brackets [ ] at the end of each question or part question.

For Examiner's Use				
1				
2				
3				
4				
5				
6				
Total				

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



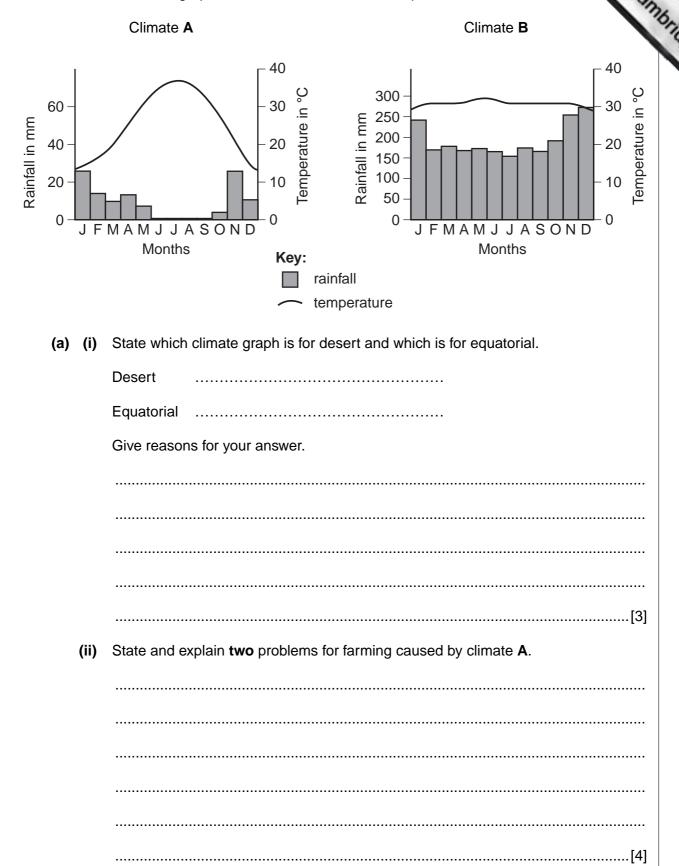
Look at the photograph below of a pine forest, part of which has been cleared.



	[1]
(ii)	Tree clearance as shown has a number of effects on the environment. Name and explain <b>one</b> such effect.
	[3]
(iii)	Name a gas which will be released into the atmosphere as branches of cleared trees breakdown or decay.
	[1]

(b)	(i)	Describe <b>one</b> effect of global warming.	bridge con
			age com
	(ii)	What can governments do to reduce global warming?	
		[3]	
		[Total: 10]	

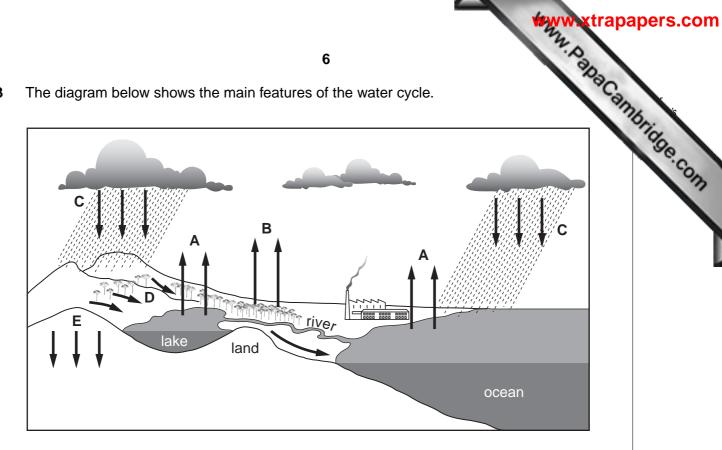
2 Look at the climate graphs below and then answer the questions.



[Total: 10]

(b)	Farmers also experience problems caused by pests and weeds. How can they these?	Bride
		Se. COM
	[3]	

The diagram below shows the main features of the water cycle.

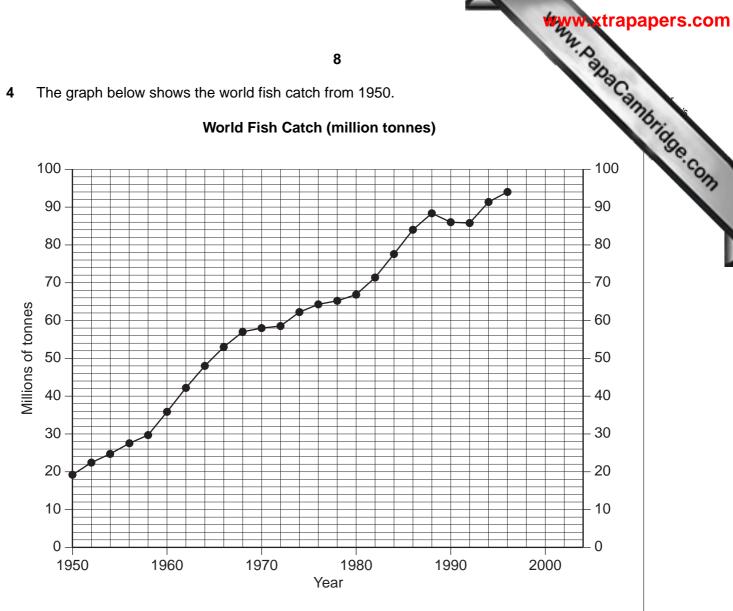


(a) (i)	Naı	Name the processes A, B and C.				
	Α					
	В					
	С		[3]			
(ii)		e process <b>D</b> shows run-off. How and why will the run-off change if trees we ared and a tourist resort built?	∍re			
			[3]			

(b)	(i)	People use water for a variety of purposes. State <b>one</b> domestic and <b>one</b> in use of water, apart from drinking.	Stidge con
	(ii)	Sometimes water supplies are adequate, but not safe. Describe <b>one</b> way in which the quality of water supplied to people might be improved.	
		[2]	
		[Total: 10]	

The graph below shows the world fish catch from 1950. 4

## **World Fish Catch (million tonnes)**



(a) (i) Add the following data to the graph:

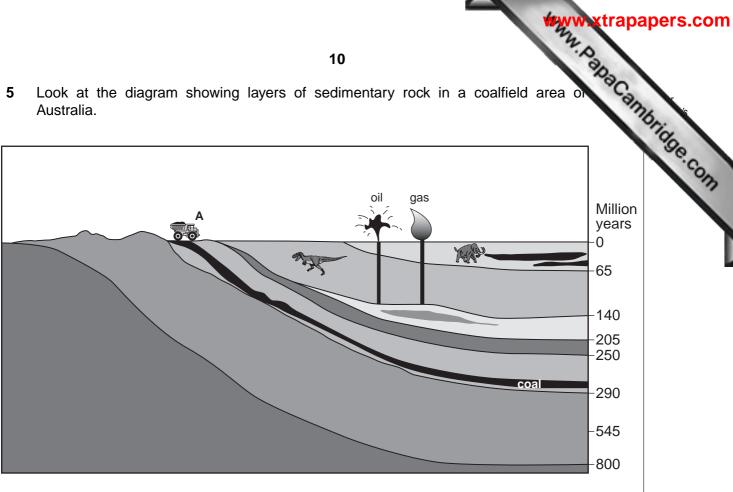
1998 87.7	
••••	
2000 95.5	
2002 93.2	[2]

(ii) Describe the changes shown by the complete graph.

[3]

(b)	One	e of the possible reasons for change in fish catches is marine pollution.	Abridge Cor
	(i)	State <b>two</b> causes of marine pollution.	Bride
			S.COM
		rol	
	(ii)	How might governments reduce the pollution problems you have named?	
	(,		
		[3]	
		[Total: 10]	

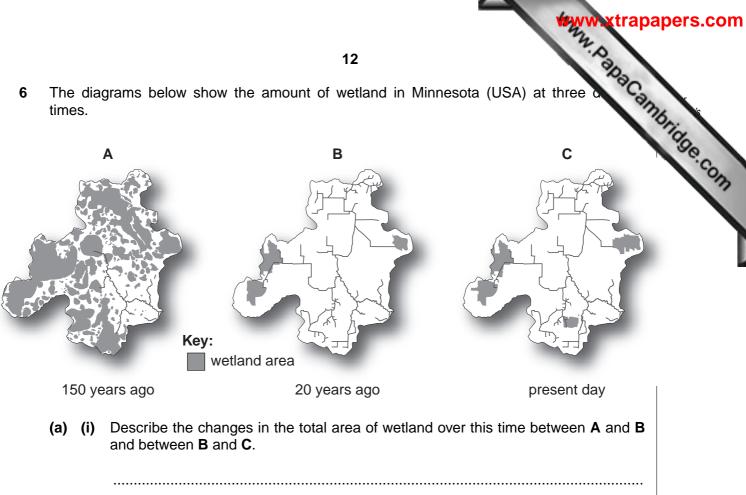
Look at the diagram showing layers of sedimentary rock in a coalfield area of 5 Australia.



(a) (i)	Name one sedimentary rock which can provide energy for industry.		
		[1]	
(ii)	How are sedimentary rocks formed?		
		[2]	
(iii)		the dead bodies of ancient organisms are called sil fuels shown in the diagram, state the age of the	
	Fuel Name	Age of rock	
		million years	
		million years	
		million years [2]	

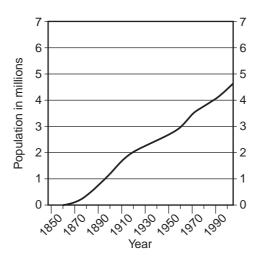
(b)	(i)	The coalmine at point <b>A</b> is an opencast one. State <b>two</b> ways in which people nearby might be affected by opencast mining.	Shide
			Se. COM
		[2]	
	(ii)	Describe how damage to the environment might be repaired when the opencast mine has stopped working.	
		[3]	
		[Total: 10]	

The diagrams below show the amount of wetland in Minnesota (USA) at three 6 times.



[2]
ii) Suggest how wildlife in the area might have been affected by the changes you have described between <b>A</b> and <b>B</b> .
described between A and B.
[3]

**(b)** The graph below shows how the human population of Minnesota has changed 1850.



Using the graph, the information in part (a), and your own knowledge, suggest why the changes in wetlands have occurred.

[3]

State one disadvantage and one advantage of making an area of wetland in Minnesota into a wildlife reserve.

[Total: 10]

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Copyright Acknowledgements:

Question 1 G. Skinner © UCLES.

Question 4 © <a href="http://www.earth-policy.org/Indicators/Fish/Fish\_data.htm#table1">http://www.earth-policy.org/Indicators/Fish/Fish\_data.htm#table1</a>

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