		MANN. Dabac
	UNIVERSITY OF CAMBRIDO	GE INTERNATIONAL EXAMINATIONS
CANDIDATE NAME		
CENTRE NUMBER		CANDIDATE NUMBER
ENVIRONMEN	TAL MANAGEMENT	0680/1
Paper 1		October/November 201
		1 hour 30 minute

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
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Total	

This document consists of **15** printed pages and **1** blank page.



- www.papaCambridge.com In Bristol Bay, Alaska, salmon have been fished for centuries. The fishery income 1 \$100 million per year. Gold and copper have been discovered in the area recently and per are worried that pollution from mining will destroy the fishery. The mine is thought to have about \$100000 million worth of gold and copper in it.
  - (a) (i) How many years of 'fishery income' will the mine yield? Show your working.

..... years [2]

(ii) One person living in Bristol Bay objecting to the mining development said:

"The fishing we are doing now is sustainable. The mining operation is going to be very profitable but unsustainable."

Using the information above and your own knowledge, explain what the person meant.

..... \_\_\_\_\_ .....[3]

- (b) One of the problems from mining in the Bristol Bay area is acidic drainage from the mine going into rivers and lakes.
  - State **one** way, other than by discharge, that lakes and rivers can become more (i) acidified.

.....[1]

Describe how acidification affects ecosystems in rivers and lakes. (ii)

..... [3]



The world map below shows carbon dioxide emissions per head of population. 





6 The sketches below show two ways in which people use their natural environment.

3



(a) (i) Write down the letter that shows each of the following types of farming:

crop farming	
pastoralism	 [1]

(ii) The sketches show extensive and intensive farming. Using what you can see in the sketches, and your own knowledge, describe differences between extensive and intensive farming.

Land used for farming is one of the main causes of deforestation. Expla (b) (i) farming and other human activities lead to deforestation.

www.papaCambridge.com ..... ..... ..... ..... .....[3] (ii) State two consequences of deforestation. ..... .....[2]

4 PopocatépetI is a volcano. The map shows Mexico City and the area to its South-East, over 20 million people live.



- 9 (iv) Suggest reasons why people live close to Popocatépetl.
- (b) Using the map below and your own knowledge suggest why there are volcanoes at location **X**.



The world average fresh water availability is 7000 m<sup>3</sup>/person/year. This would be end 5 all the world's people if it were evenly distributed. The graph shows the water wealth on countries.



The water wealth of the five countries with the lowest water wealth (water poor) is shown below:

water poor countries	water availability /m <sup>3</sup> per person per year
Yemen	240
Saudi Arabia	120
Jordan	115
Libya	100
Egypt	45

www.papaCambridge.com (a) (i) Plot the values for the five water poor countries on the grid below, choose appropriate scale so that the differences between them are clearer than on graph on the previous page.

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There are a number of ways in which water poor countries can increase their (ii) supplies of fresh water. One is desalination. Suggest why the world's largest users of desalinated water are the countries around the Gulf in the Middle East.

..... .....[2] Apart from desalination describe how water poor countries can increase their water (iii) supplies. ..... .....[2]

	12 XXXXX, D	
(b)	Give reasons why there is often better access to safe (clean) water in urban area in rural areas.	hbridge.c
		Se.con
	[3]	



## **QUESTION 6 BEGINS ON PAGE 14**

13



(ii) These gases are all important for life on Earth. The following passage gives some of the reasons why. Complete it **using the names of the gases above**.

Of the four gases in the atmosphere, two are used by plants.	For photosynthesis
is used and for respiration	
is used. Animals also usein respirat	ion. Of these gases,
two, and	are greenhouse
gases. One of the four gases,	protects all life on
Earth from harmful ultra-violet light from the Sun.	[3]

	422	
	15	
	15 er human history the atmosphere has been changing. These changes is equences for human health and global temperature. Explain how changes in carbon dioxide concentration can affect global temperature.	6.
(i)	Explain how changes in carbon dioxide concentration can affect global temperature.	1996.
(ii)	Explain how changes in ozone concentration can affect human health.	
	[3]	
(iii)	Describe strategies for dealing with the problems caused by changes in the amount of ozone.	
	[2]	



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