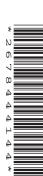


UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		

ENVIRONMENTAL MANAGEMENT

0680/02

Paper 2

May/June 2008

1 hour 45 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 both 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.

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1		
2		
Total		

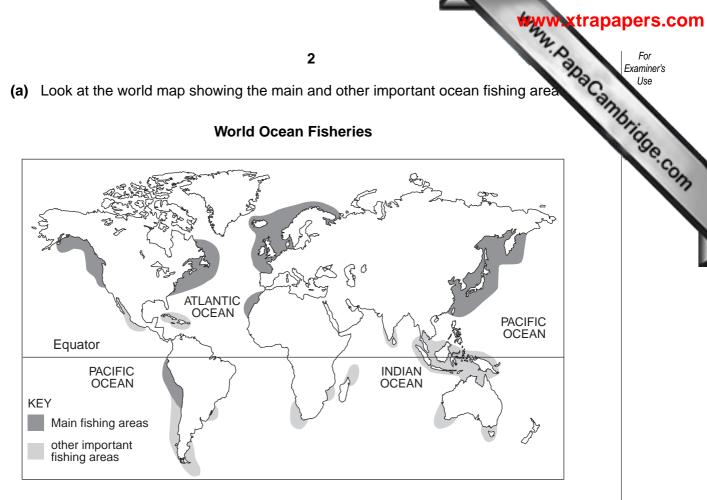
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(a) Look at the world map showing the main and other important ocean fishing area

1

World Ocean Fisheries



(i)	Describe where the main fishing areas are located.
	[3]
(ii)	State one similarity and one difference between the locations of the main and other important fishing areas.
	Similarity
	Difference
	[2]

(b) Three factors to explain the locations of major ocean fisheries are listed below.

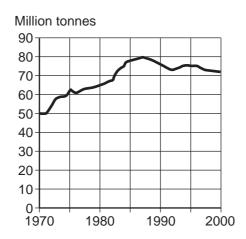
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•	WILL	COntinental	Chair

- presence of ocean currents
- densely populated coastal areas nearby

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	gee factors to explain the locations of major ocean fisheries are listed below. wide continental shelf presence of ocean currents densely populated coastal areas nearby	For Examiner's
Thr	ee factors to explain the locations of major ocean fisheries are listed below.	Use
•	wide continental shelf	Strice
•	presence of ocean currents	To !
•	densely populated coastal areas nearby	COM
(i)	How many of these factors are natural (physical) factors?	
	[1]	
(ii)	Choose two of the factors. For each one, explain its importance for major ocean fisheries.	•
	Name of factor	
	Name of factor	
	TA1	

(c) Look at the graph showing total world ocean fish catches.

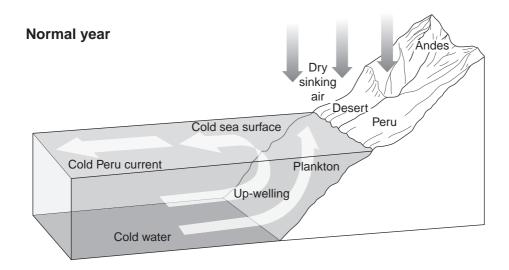
World Ocean Fish Catches

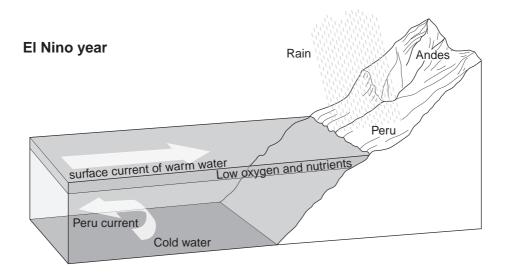


(1)	State the amount of fish caught in 1970, 1987 and 2000.
	[2]
(ii)	Describe the evidence from the graph which suggests overfishing.
	[2]

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(d) Some of the human ca	uses of overfishing are showr	n in the spider diagram.	Carry
Larger size fishing boats	Human causes	High technology for locating shoals of fish	apapers.com For Examiner's Use
	of overfishing		1
Bigger nets in use		Refrigerated factory ships	
(i) Briefly describe ho	w each one contributes to ov	verfishing.	
			[4]
(ii) In your view, which	n one is contributing most to c	overfishing? Explain why.	

(e) In some ocean fishing areas, fish catches are reduced by natural causes. This h off the coast of Peru in El Nino years.





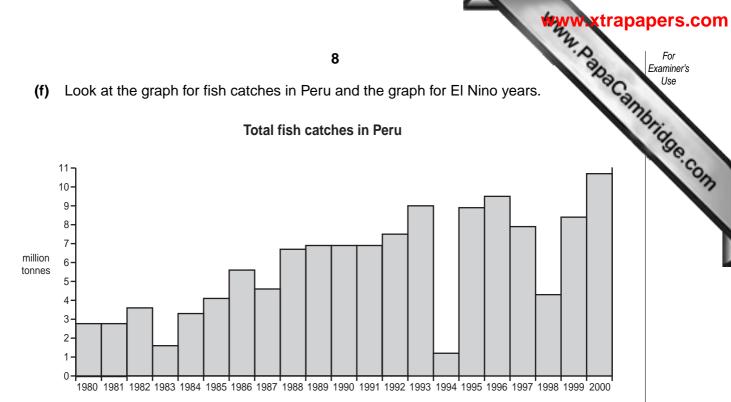
Describe the differences between normal and El Nino years for

(i)	ocean currents
(ii)	warm and cold water
	[2]

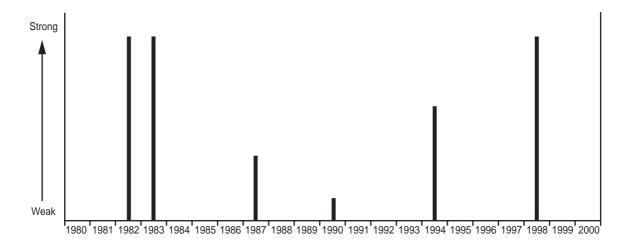
~~	- Litarini o
(iii) Explain why there are fewer fish off the coast of Peru in El Nino years.	Man Use
	age.
[2]	. `

(f) Look at the graph for fish catches in Peru and the graph for El Nino years.

Total fish catches in Peru



The record of El Nino years in Peru



State the three strong El Nino years.

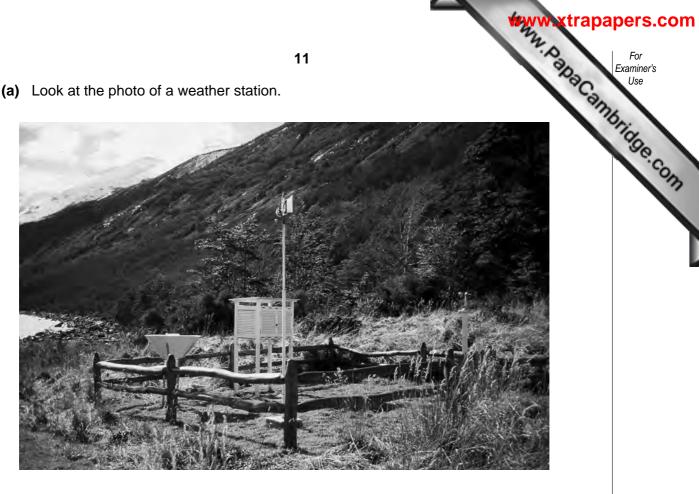
(11)	answer with evidence from the graphs.
	[4]
(iii)	Is there any evidence, from the graph of fish catches, for overfishing in Peru during the 1990s? Explain your answer.
	[2]
(g) (i)	Draw another spider diagram to show three strategies for the sustainable harvesting of ocean fisheries and reducing overfishing.

(ii)

Are these strategies for the sustainable harvesting of ocean fisheries difficult to carry out? Explain your views on this.	Ose Ontic
	26.C
	OH
[5]	
[Total: 40]	

[10tal. 40]

(a) Look at the photo of a weather station.



(i)	State why this is a good place to site a weather station.	
		[2]
(ii)	Give one reason why a fence is usually built around weather stations.	
		[1]
(iii)	Name a weather instrument that will be placed inside the white wooden box.	
		[1]

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(iv) Draw a labelled diagram to show how wind speed is measured in a station.

[3]

(b) Look at the table of climate data for two weather stations in Africa north of the Equator.

Station A

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temperature (°C)	16	19	23	28	31	34	34	34	33	30	24	19
Precipitation (mm)	0	0	0	0	0	0	0	0	0	0	0	0

Station B

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temperature (°C)	22	24	28	31	29	29	27	25	26	27	25	21
Precipitation (mm)	0	0	3	10	69	117	206	310	142	13	0	0

(i) Complete the table below for Station A.

	Station A	Station B
Highest monthly temperature (°C)		31
Lowest monthly temperature (°C)		21
Annual range of temperature (°C)		10
Precipitation during the year		wet and dry season

(ii)	When is the wet season at Stat	ion B?	L.C.
(iii)	Major climatic types in Africa		
	Equatorial	Savanna	Desert
	Name the type of climate at Sta	ition A and at Stati	on B.
	Station A		
	Station B		[1]
(iv)	State one reason for each of the	e choices made in	part (iii).
	Station A		
	Station B		
			[2]

(i) For three of the options, state one advantage and one disadvantage of each for

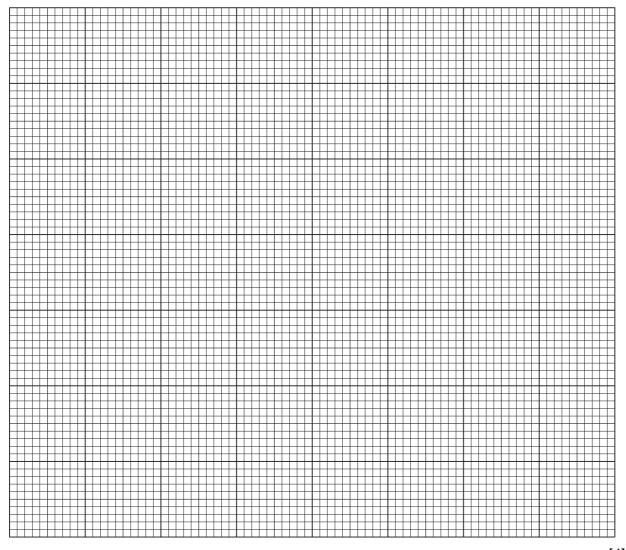
- (c) Many parts of Africa are too dry for cultivation for part or all of the year. Four op allow farming in dry areas are listed below.
 - Practise extensive livestock farming
 - 2 Plant new varieties of crops
 - Government builds large dams, reservoirs and irrigation canals 3
 - Use underground water supplies for trickle drip irrigation

tar	ming in dry areas.
Op	otion number
Or	otion number
Ċ	
•••	
Or	otion number
•	
•••	
•••	
	[6
In are	your view, which one of the four options is the most sustainable for farming in dreas? Explain your choice.
•••	
	13

(d)	(i)	Name one area where desertification is a major problem.	Alby.
	(ii)	There are both physical and human causes of desertification. Explain this statement.	Andridge Com
			l l
		[3]	
	(iii)	Which is more important as a cause of desertification – human or physical factors? Explain your view.	
		[2]	
(e)		ig cities located in dry climates, such as Los Angeles, atmospheric pollution is a big blem.	
	(i)	State two reasons why atmospheric pollution from traffic and industry is often worse in places with a dry climate.	
		[2]	

		16
(ii)		os Angeles
Number of days with a	Year	Number of
	1975	days 210
	1980	170
	1985	160
	1990	130
	1995	95
	2000	45

In the space below, draw a graph to show these values.



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e effective – in Is like Cairo and (iii) Describe the trend from 1975 to 2000. Where are strategies for reducing traffic emissions likely to be more effective - in developed world cities like Los Angeles, or in developing world cities like Cairo and Beijing? Explain your answer as fully as you can.

17

[Total: 40]

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