		MANN, DanaC
	UNIVERSITY OF CAMBRIDGE INTER International General Certificate of Sec	RNATIONAL EXAMINATIONS
CANDIDATE NAME		
CENTRE NUMBER		CANDIDATE NUMBER
	ITAL MANAGEMENT	0680/
ENVIRONMEN Paper 1 Candidates an		October/November 20 1 hour 30 minut
	swer on the Question Paper.	i nour so minu

Additional Materials: Ruler

4

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.

iner's Use

This document consists of **12** printed pages.



www.papaCambridge.com 2 Look at the graph below which shows the number of tourists watching whales b 1 1950-2000. 10

8

6



(c) Look at the diagram below which shows a food chain in the sea.



- Draw arrows in the three small boxes in the diagram above to show the direction of (i) energy flow. [1]
- In the large circle on the right of the diagram draw or name an organism that could (ii) be the next link in this chain. [1]
- (iii) For this chain name:
 - 1. the producer
 - 2. a consumer
 - 3. [3] the source of all the energy

[Total: 10]



www.papaCambridge.com (b) Look at the photograph below, which shows a sugar plantation in Que Australia.



The cane fields were cleared from the rainforest which still surrounds them. State (i) the effects that the removal of this forest might have had on the environment in this area.

	[3]
(ii)	In Australia sugar cane is burnt before harvesting. This gets rid of dangerous snakes and also the dry parts of the plant which contain little sugar. When the sugar farmer was asked the question:
	'Doesn't cane burning harm the environment by releasing carbon dioxide (a 'greenhouse gas') into the atmosphere?'
	the farmer said no.
	What reasons could the farmer give to support this answer?
	[3]
	[Total: 10]



(b) Read the following passage about two earthquakes which occurred in December

www.papacambridge.com 'The earthquake, that killed more than 50,000 people in Iran was part of a norm pattern', the US Geological Survey office said yesterday. A large part of the city of Bam was flattened.

"This is just the norm of earthquake activity," a seismologist said.

"We would need several more large earthquakes to consider this unusual."

On the Richter scale, the 6.8 magnitude earthquake in Bam was about the same size as the California earthquake, on December 22, that killed two people and toppled a clock tower.'

(i) Using the information in the passage complete the following table comparing these two earthquakes:

	California	Bam
date		
magnitude		
number of people killed		
damage to buildings		

(ii) Suggest why the two earthquakes resulted in such large differences between two similar events.

 	 	 [3]

[Total: 10]



		MAN D	
		9	
	(ii)	9 In the Himalayas deforestation has been carried out. How does this make in Bangladesh more likely?	mbri
			200
			.9
		[3	1
			1
(b)		re are different solutions for problems of flooding. One involves major engineering ects.	3
	(i)	Suggest two examples of engineering projects which might be undertaken to reduce flooding.	
		[2	1
		•	1
	(ii)	Describe how people can reduce the effects of flooding.	
			_
		01	1
		[2]

	10 used in intensive farming ha mplete the following table about	ave a number of advantage t intensive crop farming. Disadvantage	bacambi
	Advantage	Disadvantage	
chemical fertilisers	increase productivity		
pesticides		damage wildlife by getting into food chain or depriving predator species of food	
machinery	makes farming more efficient and increases yields		
monocultures	increase crop production		

- [4]
- Some people say that genetic engineering will bring a second Green Revolution. (b) (i) The first Green Revolution involved selective breeding. What are the differences between selective breeding and genetic engineering? _____[2] (ii) State **two** benefits gained from growing genetically engineered crops.[2] (iii) Give reasons why some people object to the use of genetically engineered crops.[2] [Total: 10]

Look at the graph which shows how the different types of energy used by peop 6 changed and are projected to change:



(ii) Some methods for energy conservation in houses in cold climates are s diagrams A-D. Which house will be the most energy efficient? Explain your answer.



Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

University of Cambridge International Examinations is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of University of diante (LIOLEO), subiab la itani