		MANNI Dabac
		OGE INTERNATIONAL EXAMINATIONS cate of Secondary Education
CANDIDATE NAME		
CENTRE NUMBER		CANDIDATE NUMBER
ENVIRONMEN	ITAL MANAGEMENT	0680/13
Paper 1		October/November 2012
		1 hour 30 minutes

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.



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**1** (a) The table shows the composition of the atmosphere.

gas	percentage
nitrogen	78
oxygen	21
other gases	1
TOTAL	100

(i) Draw a pie graph to show these percentages and complete the key.



(ii) Name two gases which contribute to global warming.

.....[1]

		ANNA AND	
		3	
(b)		3 nan sources add many gases to the atmosphere. These include oxides of $h_{x}$ ) and sulfur dioxide (SO <sub>2</sub> ). What type of atmospheric pollution do these gases cause? [1]	10.
	(i)	What type of atmospheric pollution do these gases cause?	age.
		[1]	-01
	(ii)	Name a different source for each gas.	
		NO <sub>x</sub>	
		SO <sub>2</sub>	
		[2]	
	(iii)	For <b>one</b> of the activities, explain how it could be reduced.	
		[3]	



	422	
	5	
(b)	What are the economic advantages and disadvantages of mining for a country?	×.
		bridge con
		1
	[3]	

3 Read these sentences about ecosystems.

		44
		6
Rea	ad the	ese sentences about ecosystems.
	livin	6 ese sentences about ecosystems. ecosystem contains a number of species each of which has a <b>population</b> g in a particular <b>habitat</b> and occupying a <b>niche</b> . They all live together in a <b>munity</b> ."
(a)	(i)	Explain the meaning of each of the following terms.
		population
		habitat
		niche
		community
		[4]
	(ii)	Species are adapted to the physical environment in which they live.
		Explain how desert plants are adapted to the hot desert environment.
		[3]

www.papacambridge.com (b) Humans can alter natural ecosystems by developing new varieties of crops. One which this is done is by genetic modification (GM).

Here are some statements about GM crops.

- Α They can lead to more efficient use of existing farm land.
- В They can be made to be pest resistant.
- С They can be made to be herbicide (weedkiller) tolerant.
- D Their use may create 'super weeds' without natural controls.
- Е Use of natural crop varieties will decrease.
- F Their cultivation could lead to greater use of herbicides.

Choose three of these statements. For each, write the letter and state possible effects on natural ecosystems.

Statement .....

atement	
atement	
	[3]

- (a) The Earth has 1.4 billion km<sup>3</sup> of water of which only 3% is freshwater. 4
- www.papacambridge.com How many cubic kilometres of the Earth's water is freshwater? Show your working (i)

..... km<sup>3</sup> [2]

(ii) The freshwater was once in the sea and most of it will go back to the sea. Explain how this happens in the water cycle.

..... .....[3]

(b) People use freshwater for many purposes. One is for the disposal of human wastes. The table shows the number of people with no access to improved sanitation in the world in 2004.

world region	number of people without improved sanitation (millions)	%
Sub-Saharan Africa + Middle East	950	38
South Asia	500	
Latin America		4
East Asia	950	38
TOTAL	2500	100

Complete the table. (i)

8

		4
		9
(ii)		9 e data could be represented in a graph. Which would be the most suitab following list, and why? bar chart line graph pie graph
	Α	bar chart
	в	line graph
	С	pie graph
	D	histogram
	Let	ler
		[2]
(iii)	wat	areas where sanitation is poor, water related diseases are common. Name <b>one</b> er related disease and <b>state</b> whether it is water-based, water-borne or water- d and <b>how</b> it can be controlled.
	nan	ne of disease
	wat	er-based, water-borne or water-bred
	met	thod of control
		[2]



		12	
		11 · · · · · · · · · · · · · · · · · ·	
	(ii)	11 Other than the substances mentioned in (a)(i), what other substances do need for growth and from where do they obtain these?	bhin .
			Se.com
		[2]	
	(iii)	<b>Use information from the ecosystem diagram</b> to draw a food chain which includes insects, trees, mice and foxes.	
		[3]	
(b)		lain how the living and non-living environments can be affected when the trees are oved from forest ecosystems.	

www.papaCambridge.com 6 Look at the map below which shows the course of the river Nile in part of Sudan Egypt.



Lake Nasser was formed by the building of the Aswan High Dam.

- How long is Lake Nasser? (a) (i)
  - Suggest three ways in which the building of the Aswan High Dam has benefited (ii) Egypt.

..... km [1]

..... ..... ..... .....[3]

(iii) Describe two problems caused by the building of large dams such as the Aswan High Dam.

..... .....[2]

www.papacambridge.com 13 (b) Many countries such as Egypt also make use of the resource potential of the adv seas and oceans. Some potential resources are shown in the spider diagram below desalination oceans as a resource tourism (i) Complete the diagram by adding **two** further resources. [2] Choose one of the resources you have named and explain how human use of this (ii) resource affects the oceans. ..... .....[2]



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