		cate of Secondary Education	ATIONS
CANDIDATE NAME			
CENTRE NUMBER		CANDIDAT NUMBER	E
ENVIRONMEN	AL MANAGEMENT		0680/12
Paper 1			May/June 2010

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.

ω 0

> 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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Total		

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- (b) Volcanoes and earthquakes are due to tectonic activity. They both cause proble fewer people are killed by volcanoes than earthquakes.
  - Give three ways in which people might be killed by volcanoes. (i)

www.papaCambridge.com ..... ..... .....[3] Why are more people killed during earthquakes than during volcanic eruptions? (ii) ..... .....[2] (iii) State one strategy for reducing loss of life in an earthquake. .....[1]



 (i) A–G on the diagram are places where water pollutants are produced. Match each letter to one of the three main sources of pollution named below.

Domestic	
Agricultural	
Industrial	

[3]

www.papaCambridge.com (ii) The effects of plant minerals in water are summarised in the following flow Complete the flow chart.



[3]

(b) Describe ways in which water pollution might be reduced or stopped.

..... ..... [4]

		*****
		6
(a)		6 ad the following statement about the objectives of the Convention on Bit ersity established in 1993. objectives are the conservation of biodiversity, the sustainable use of its components.
	Our	objectives are
	• •	the conservation of biodiversity, the sustainable use of its components, the fair sharing of the benefits of using genetic resources.
	(i)	State what <i>biodiversity</i> means.
		[2]
	(ii)	If global warming makes an area drier, farmers might need to find a strain of wheat that will still grow there.
		How might biodiversity and genetic resources, referred to above, help with this?
		[2]
(b)	One	e threat to habitats and therefore biodiversity is tourism.
	(i)	State <b>two</b> ways in which tourism can damage or destroy habitats.
		[2]
	(ii)	Under some circumstances ecotourism can bring benefits both to the environment and to local people.
		Describe one way in which ecotourism can help
		1. the environment
		2. local people
		[2]



(a) Plants have a number of needs for growth. 4

> carbon dioxide minerals (such as nitrate and phosphate) water

These are obtained from either the soil or the atmosphere.

www.papaCambridge.com Show where each of these needs comes from by completing the table below. (i)

source	needs
soil	
atmosphere	

In an experiment, different concentrations of nitrate were supplied to lettuces in (ii) different amounts. The mass (weight of lettuces) was measured.

The results are shown on the graph.



Describe the effects of nitrate concentration on the growth of lettuces.

.....[2] (b) Look at the diagram below showing some of the causes and one consequence erosion.



(i) Match the following words to the letters in the diagram:

	overcultivation		
	natural hazards		
	more people		
	desertification		
	deforestation		
	overgrazing	[:	3]
(ii)	Describe how soil ero	sion can be slowed down or stopped.	
		[	3]

- www.papaCambridge.com 10 (a) Look at the map below which shows the world distribution of major ocean grounds. Describe the distribution of major fishing grounds shown on the map. (i) ..... .....[2] (ii) The fishing ground at **A** is on a continental shelf. Why are continental shelves often major fishing grounds? .....[2]
  - (iii) **B** is not on a continental shelf. Why is **B** a major fishing ground?

5

	11 (iv) Explain why the fisheries at <b>B</b> collapse in some years.	bildge.com
(b)	[2] Some fisheries have been overfished. State <b>one</b> reason for overfishing and explain how action might be taken to reduce the problem.	
	[2]	

www.papacambridge.com (a) The atmosphere contains a number of gases forming a mixture called air. Nitroge 6 most abundant, about 78% of the atmosphere. The minor components, which inc argon, carbon dioxide, water and ozone, make up another 1%.

Complete the table below showing some of the gases in the air and some facts about them.

gas	percentage in atmosphere	importance to life on Earth including people
oxygen		used in breathing
carbon dioxide	0.03	
water vapour	variable	
ozone	tiny	

[4]

- (b) Human activities can alter the composition of the atmosphere in many ways.
  - (i) State one way in which human activity might

		1. add to the amount of a gas naturally in the atmosphere
		2. reduce the amount of a gas in the atmosphere
		3. add a gas to the atmosphere which was not naturally there
		[3]
	(ii)	Name the gas whose levels in the atmosphere would decrease if many trees were planted.
		[1]
(c)		d can be harnessed as a source of energy. The largest and least controversial wind ines are offshore. Explain why.
		[2]

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