		AMMAN, Datta Cami
	UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATION International General Certificate of Secondary Education	
CANDIDATE NAME		
CENTRE NUMBER	CANDIDATE NUMBER	
ENVIRONMEN	ITAL MANAGEMENT	0680/11
Paper 1		May/June 2010 1 hour 30 minutes
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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.

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This document consists of **11** printed pages and **1** blank page.



www.papaCambridge.com The photograph below shows a water tower by a house in a tropical country. The wa 1 is stored in the tower is obtained from rain running off roofs of houses. The water in the comes from ponds, lakes and the sea.



(a) (i) Describe how the water from a pond, a lake or the sea becomes rain.

..... It would be easier for the people in this area to use water from ponds and lakes. (ii) Explain why this is not a good idea.[3] (iii) Small-scale schemes such as the water tower may not be possible in some communities. Describe **one** other way of supplying safe water to people.[2] (b) Most of the water on Earth is in the oceans. As well as being a store of wat oceans are also an important source of food for humans. Describe and explain we the world's main oceanic fisheries are located.

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3 Most of the water on Earth is in the oceans. As well as being a store of wat oceans are also an important source of food for humans. Describe and explain we the world's main oceanic fisheries are located.	bridge
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[3]	

www.papaCambridge.com 4 Datuk has just been awarded a grant for further education in Borneo. He is one of family who grow a crop called ginger, a spice used in cooking, on their plot in Sabah. plant is grown using traditional methods and the family obtain a yield of 1600 kg/year from a plot of 0.8 hectare. The plot is 1 500m above sea level and on a steep slope. The ginger is sold at 2.5RM/kg (RM=ringitt, the Malaysian currency). (a) (i) Calculate the annual income from ginger sales of Datuk's family. Show your working. RM [2] (ii) Datuk wants to use his education to learn about modern agricultural methods to improve the ginger yield in his village. Describe and explain two methods which he may learn about and suggest to the villagers.[4] Ginger is a cash crop as opposed to a subsistence crop. Explain the difference (iii) between these two crop types.[2] (b) Give two other uses to which crops can be put, other than providing food.[2]

www.papacambridge.com 5 Look at the diagram showing stages in the formation of acid rain. **Acid Rain Formation** 0 0 Acid 0 SO₂ 0 Rain °NO[×] Ο 0 \bigcirc Name two gases which form acid rain. (a) (i) 1..... 2 [2] (ii) Name two human sources of these gases.[2] (iii) Name one natural source of a gas which causes acid rain.[1] (b) (i) How could using alternative sources of energy to generate electricity reduce the problem of acid rain?[2] Using alternative sources of energy often relies on government support. What can (ii) people in developed countries do to reduce acid rain problems? ----

Glow worms, the larvae of a fungus fly, prey on other small flies which they attract by 4 a glowing, sticky trap at night.



Fungus flies breed mainly in moist leaf litter or in water with leaves.

(a) (i) Draw a food chain to include leaves, glow worms and flies.

(ii) Glow worm larvae are eaten by creatures called harvestmen. Are harvestmen predators, producers or competitors?

......[1]

[3]

www.papaCambridge.com (b) The glow of thousands of larvae makes a very exciting sight and tourists come this glow. A scientist in Australia is working on ways of making sure that these too do so sustainably.

Here are some of her findings:

- Shining a torch caused glow worm lights to go out in about 2 minutes. The glow worm lights came on again after about 10 minutes.
- People can cause water pollution when visiting because they step into the water. ٠
- People stray from paths and trample the forest floor.
- Using all the information given, describe two ways in which people might affect (i) glow worm numbers.

......[4]

(ii) Choose one of these ways and suggest how the effects of people might be reduced.

.....[2]

			8
5 (a	(a)		8 e of the components of soil is mineral particles. Where have these particles in and how were they formed?
	(b)	(i)	Read the following passage about the composition of soil. Fill each gap using the best word from the list below. The words may be used once, more than once or not at all.
			clay, inorganic, little, much, organic, oxygen, plants, rocks, water
			Soils, apart from mineral particles, contain dead, decaying
			and animals (called matter). Soil can be very different
			from one location to another, but generally consists of inorganic particles,
			and air. The inorganic particles are
			the that have been broken down into smaller pieces. The size
			of the pieces varies from pebbles, particles of sand to silt or
			The amount of water in the soil is linked to the climate and is one thing that can
			affect the amount of air. Very wet soil hasair. The composition
			of the soil affects the plants and therefore the animals that can live there. [4]

www.papaCambridge.com (ii) Soil is very important in agriculture, but agricultural practice can cause it to be or washed away, a process called soil erosion. State **two** ways in which people cause soil erosion and for each way suggest how the effect of erosion could be reduced.

 	 [4]

- 10
 6 Lock at the graph below showing changes in the level of ozone in the upper atmosphere from 1965 until 2005.
 Changes in the level of ozone in the upper atmosphere from 1965 until 2005
 Or a standard of the standard of the upper atmosphere from 1965 until 2005

Year

www.papaCambridge.com (b) Ozone in the upper atmosphere helps to absorb dangerous UV radiation, as s the diagram.



List three ways in which exposure to UV radiation could affect humans.

 	 [3]



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