		MANN. Papacami
		UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education
	CANDIDATE NAME	
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л о	ENVIRONMEN	ITAL MANAGEMENT 0680/11
8 7	Paper 1	October/November 2010
ω		1 hour 30 minutes
٥	Candidates and	swer on the Question Paper.

Additional Materials: Ruler

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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.



1 In the axes below, draw a sketch line graph to show the way in which world (a) (i) population has grown over the last 200 years.



Eventually, as a country becomes more economically developed its population (ii) stops growing. Look at the diagram below which shows the Demographic Transition Model (DTM) of populations.





Complete the table below to show the correct pyramid, **A**, **B**, **C** or **D**, for each stage of the DTM graph.

stage	pyramid letter
1	
2	
3	
4	

[4]

(b) (i) Population size can change due to migration. Migration is caused by push and pull factors.

Give an example of a health care service that is a push factor.

Give an example of a different health care service that is a pull factor.
[2]
(ii) Other than health care services, state two other pull factors causing rural to urban migration.
[2]



www.papaCambridge.com (b) (i) Interference with food webs can have serious consequences. For example, such as pesticides are put into the environment. A pond near a crop field is infe with harmful insects. The farmer sprays the field with a pesticide. Wind blows some of the pesticide onto marsh plants. Each plant receives 1 unit of pesticide which stays on it. A minnow that eats 100 marsh plants in one year ends up with 100 units of pesticide. A perch that eats 50 minnows in one year ends up with 5000 units.

Calculate how much pesticide will end up in the body of a hawk which consumes 20 perch in one year. Show your working.

..... units [2]

(ii) A build up of pesticide can cause problems to the animals at or near the top of the food chain, like the hawk. State and describe one way in which a farmer can control pests without using pesticides.

 [2]



(ii) The earth consists of many kinds of rock, but they can be divided into three types. Complete the table.

type		sedimentary	metamorphic
how formed	by cooling and solidification of molten rock		by heat and pressure
example	granite		

[4]

(b) The rocks of the Earth contain reserves of many minerals, such as iron, con bauxite. The graph shows the 'life expectancy' of some minerals (how long they win at present rates of use).



		8 What is weather?	
4	(a) (i)	What is weather?	40
			e.com
	(ii)	Choose two elements of weather and explain how they can be measured accurately.	
		[4]	

The table below gives climate data for Lusaka in Kenya. Use the data to complete (b) (i) the two graphs on the opposite page.

	month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
temperature in °C	22.5	22.5	22.5	20.5	18.5	16.5	16	18.5	22	24.5	23.5	22
rainfall in mm	186	155	100	31	4	0	0	0.3	20	22	87	156

[2]

(ii) State the type of climate found in Lusaka. Give a reason for your answer.

..... _____[2]





		Marry D
	11 ne following diagram showing how the s the poles, B .	Sun's rays strike the Earth at the equation of the cards at the cards a
Sur		Sun's rays strike the Earth at the equation of energy hitting every square metre of the Earth's surface in watts (W)
342 W	<i>I</i> /m² 342	2 W/m ²
342 W	V/m ² Earth's surface	242 W/m ²
1 m	1 ²	1.42 m ²
Α		В
) (i) [\]	What is insolation?	
		[1]
	How much more energy, as a percent than at B ? Show your working.	tage, strikes the Earth's surface at A rather
		, temperatures are higher. State two factors, which can affect the temperature of a place.
	other than distance from the equator, v	, temperatures are higher. State two factors,

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