

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

CANDIDATE NAME		
CENTRE NUMBER	CANDIDATE NUMBER	
GEOGRAPHY		0460/11
Paper 1		May/June 2013 1 hour 45 minutes
Candidates answe	er on the Question Paper.	
Additional Materia	als: Ruler Calculator	

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces provided.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 ON ANY BARCODES.

Write your answer to each question in the space provided. If additional space is required, you should use the lined page at the end of this booklet. The question number(s) must be clearly shown.

Answer **three** questions.

The Insert contains Photograph A for Question 4 and Photograph B for Question 6. The Insert is **not** required by the Examiner.

Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.

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 Exam	iner's Use
Q1	
Q2	
Q3	
Q4	
Q5	
Q6	
Total	

This document consists of 28 printed pages and 1 Insert.



UNIVERSITY of CAMBRIDGE International Examinations

[Turn over

QUESTION 1

1 (a) Study Fig. 1, which shows the population pyramids of Mexico (LEDC) and the USA (MEDC).

2





(i) What is meant by *economically active*?

(ii) What evidence in the population pyramids shown in Fig. 1 suggests that:
A people in Mexico have a shorter life expectancy than people in the USA;
B the USA has a lower birth rate than Mexico?

For Examiner's Use

(iii) Compare the percentage of young dependents in Mexico with that in the USA. Support your answer with figures. Examiner's[3] (iv) Explain why, in LEDCs such as Mexico, young dependents make up a large percentage of the population.[4]

For

Use





(i) Describe how the number of people **aged 75 and over** is expected to change in the UK between 2011 and 2031. Support your answer with figures.



(b) Study Fig. 2, which shows changes in the number of old dependents in the UK (MEDC).

4

(ii) Explain why the governments of MEDCs, such as the UK, are concerned about the ageing population.

[5]

(c)	For a named country, state a policy which has been used to influence rates of population growth. Describe the impacts of this policy.	For Examiner's Use
	Name of country	
	Policy	
	Impacts	

]	7	1
L		

[Total: 25 marks]

END OF QUESTION 1

QUESTION 2

2 (a) Study Fig. 3, which shows cities which are expected to have a population greater than 5 million by 2015.



Fig. 3

(i) Name the continent which will have most cities with a population greater than 5 million by 2015.

.....

(ii) State two other features of the distribution of the cities shown in Fig. 3.

7

[1]

(iii)		
	A natural population growth;	Examiner's Use
	[3]	
	B migration.	
	[4]	

(b) Study Fig. 4, which shows information about the urban population who lived in slums (poor quality housing) in 1990 and 2007 in a selection of LEDCs. Examiner's



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For

	(ii)	Explain why many people in cities in LEDCs live in slums.	
	(")		For Examiner's
			Use
		[5]	
(c)	Nar	ne a city and describe what has been done to improve living conditions in the slums nd there.	
	ioui		
	Nar	ne of city	
		ı — ۱	
		[7]	

10

[Total: 25 marks]

END OF QUESTION 2

QUESTION 3

3 (a) Study Figs 5A and 5B, which show a volcano before and after an eruption.



Fig. 5B

(i)	Identify a tourist facility shown on Fig. 5A, which was destroyed by the volcanic eruption.	For Examiner's Use
	[1]	
(ii)	Describe two likely problems for people who live in the area shown on Figs 5A and 5B as a result of the volcanic eruption.	
	1	
	2	
	[2]	
(iii)	Explain why some volcanoes erupt on constructive (divergent) plate boundaries.	
	[3]	
(iv)	Describe the opportunities offered by volcanoes for people who live close to them.	
	r # 1	
	[4]	



[3]

13

For Examiner's Use

(ii)	Explain how the Himalayas were formed as a result of plate movement.
	[5]
Nai	
Nai Des	ne an area which you have studied where there has been an earthquake. cribe the effects of this earthquake.
Nai	ne of area
Na:	ne of area
Nai	ne of area
Nai	ne of area
Na:	ne of area
Nai 	ne of area
Nai 	ne of area
Nai 	ne of area
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Nai	ne of area
Nai 	ne of area
Nai	ne of area

[Total: 25 marks]

END OF QUESTION 3

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(ii) Using evidence from Fig. 7 only, describe two features of the coastal landform labelled X.

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For Examiner's Use

QUESTION 4

4 (a) Study Fig. 7, which shows an area of coastline.

Explain how coastal processes formed landform ${f X}$. You may include a labelled (iii) For diagram. Examiner's Use [3] (iv) Explain how sand dunes are formed in areas of coastal lowland, such as area Z on Fig. 7.[4]

(b)	Stu	dy Photograph A (Insert), which shows the cliffs labelled at Y on Fig. 7.	For
	(i)	Suggest why the cliffs shown in Photograph A are eroding rapidly.	Examiner's Use
		[3]	
	(ii)	Explain how erosion of cliffs, such as those shown in Photograph A, could cause problems for people.	
		[5]	

(c)	Most deltas are located on the coast. Describe the benefits and problems of living on a delta which you have studied.	For Examiner's Use
	Name of delta	
	[7]	
	[Total: 25 marks]	

END OF QUESTION 4

QUESTION 5 For Examiner's Use 5 (a) Study Fig. 8, which shows information about domestic use of water in Norway (MEDC in Europe) and Sudan (LEDC in Africa). Norway 150 170 30 $\dot{40}$ 50 60 70 80 90 100 110 120 130 140 160 180 20 10 litres per person per day Sudan Key washing toilet cooking and drinking 10 20 30 40 50 washing dishes and cleaning litres per person per day washing clothes other uses Fig. 8 What is meant by domestic use of water? (i) (ii) Compare the total daily domestic use of water per person in Norway and Sudan. Use statistics from Fig. 8 in your answer.



 (b) Study Fig. 9, a map of the Mangla Reservoir and Dam in Pakistan. The Mangla Dam is a multi-purpose project which was completed in 1967. Recently the height of the dam has been raised by over 9 metres.

River Roonc 5 0 To Kotli Dudial km Ν Palak Khanabad $\left(\right)$ Bağam Batli Chaksawri River Kar Reservoir Akalgarh (Islamgarh) Mangla Dam New/Mirpu Jari \bigcirc Jari Dam Śultanpur Mangla Key Pandori FINEFShelt railways H+++++++++ main roads _ uuu canal Dina large towns



(i) Describe the location of the Mangla Dam.

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(ii) Suggest the benefits and problems of increasing the height of the Mangla Dam for For people living in the area shown in Fig. 9. Examiner's Use (c) Name an example of a sea, lake or river which has been polluted by human activity. Describe the causes of pollution and its effects on the natural environment. Name of sea, lake or river

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Use (a) Study Fig. 10, which shows the environmental impacts of producing a brand of 6 processed cheese, along with Photograph B (Insert) which shows this manufactured product. Greenhouse Energy Water gas emissions (%) consumption (%) consumption (%) Key producing raw materials manufacturing packaging transport Fig. 10 During which stage is there the greatest environmental impact? (i) Underline the correct answer. producing raw materials

QUESTION 6

(iii) Suggest three ways in which the environmental impacts of producing and For transporting this manufactured product could be reduced. Examiner's Use 1 2 3..... [3] (iv) Explain how greenhouse gas emissions may cause an increase in global temperatures.[4]

(b) Study Fig. 11, information about making silicon chips which are a component used in the manufacture of computers.

25





(i) Identify an input, a process and an output in the manufacture of silicon chips.

Input
Process
Output

[3]

(ii) Silicon is also a component of solar panels which are used to generate solar energy, an alternative to using fossil fuels.
 Explain why in many countries only small amounts of alternative energy sources are used.

 (c) Name an area where manufacturing or processing industry is important and give an example of a type of industry (or factory) which you have studied in that area. Explain the reasons for its growth at that location.

Nan	ne of area
Туре	e of industry
	[7]
	[Total: 25 marks]
	END OF QUESTION 6

Additional Page				
If you use the following lined page to complete the answer(s) to any question(s), the question number(s) must be clearly shown.	Examiner's Use			

Converse Advantage	
Copyright Acknowledgements:	

Question 2 Fig. 4	© adapted: <i>Slums Graph</i> ; http://filipspagnoli.wordpress.com/stats-on-human-rights/statistics-on-poverty/statistics-on-poverty-urbanization-and-slums.
Question 4 Photograph A	S Sibley © UCLES.
Question 5 Fig. 9	© adapted: Wideworld Magazine; Philip Allan Publishers; April 1997.
Question 6 Fig. 10	© adapted: http://www.groupe-bel.com/bebel/en/corporate-social-responsibility/sustainable-development-2-3/environment-and-ecodesign.html.
Question 6 Fig. 11	© adapted: http://cartanova.ca/green-business-blog/item/71-the-environmental-impact-of-the-internet.
Question 6 Photograph B	S Sibley © UCLES.

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