

# UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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NAME					
CENTRE NUMBER			CANDIDATE NUMBER		

GEOGRAPHY 0460/11

Paper 1 May/June 2013

1 hour 45 minutes

Candidates answer on the Question Paper.

Additional Materials: 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 Examiner's Use			
Q1			
Q2			
Q3			
Q4			
Q5			
Q6			
Total			

This document consists of 28 printed pages and 1 Insert.



### **QUESTION 1**

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

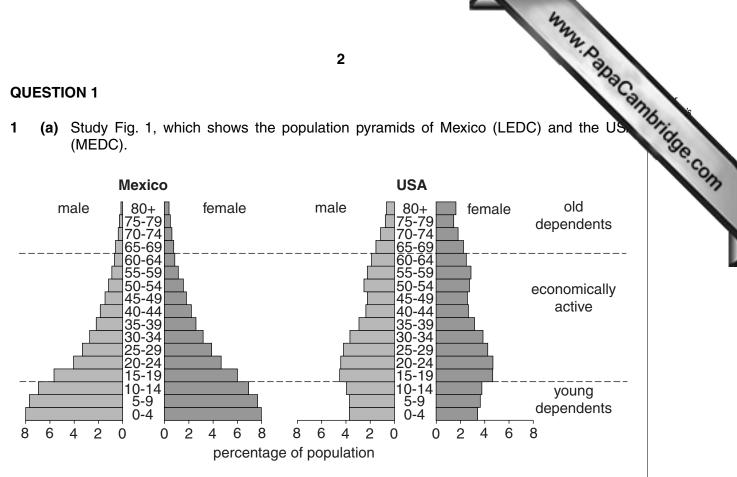


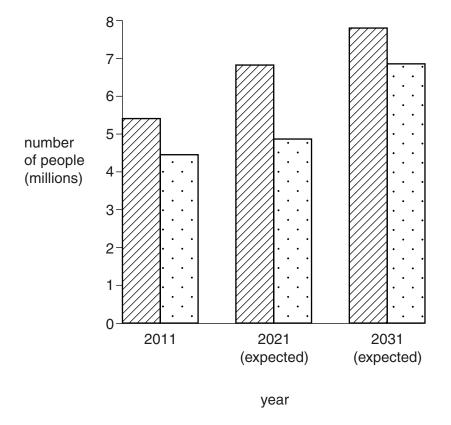
Fig. 1

(i)	Wha	at is meant by economically active?	
			 [1]
(ii)	Wha	at 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;	
	В	the USA has a lower birth rate than Mexico?	
			[2]

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Te UK (M. Papacannonidae com

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



Key	
people	people
aged	aged
65	75
to	and
74	over

Fig. 2

(i)	Describe how the number of people <b>aged 75 and over</b> is expected to change in the UK between 2011 and 2031. Support your answer with figures.
	[0]

e rates of popular	bridge
	age con

(c)	For a named country, state a policy which has been used to influence rates of pop- growth. Describe the impacts of this policy.
	Name of country
	Policy
	Impacts
	[7]

[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 that 5 million by 2015.

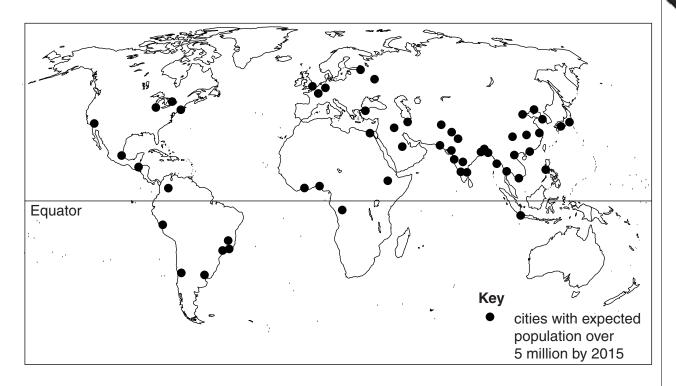


Fig. 3

(i)	Name the continent which will have most cities with a population greater than 5 million by 2015.
	[1]
(ii)	State <b>two</b> other features of the distribution of the cities shown in Fig. 3.
	1
	2
	[2]

(iii)	Explain how large cities in LEDCs can result from:
	Explain how large cities in LEDCs can result from:  A natural population growth;
	[3]
	B migration.

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

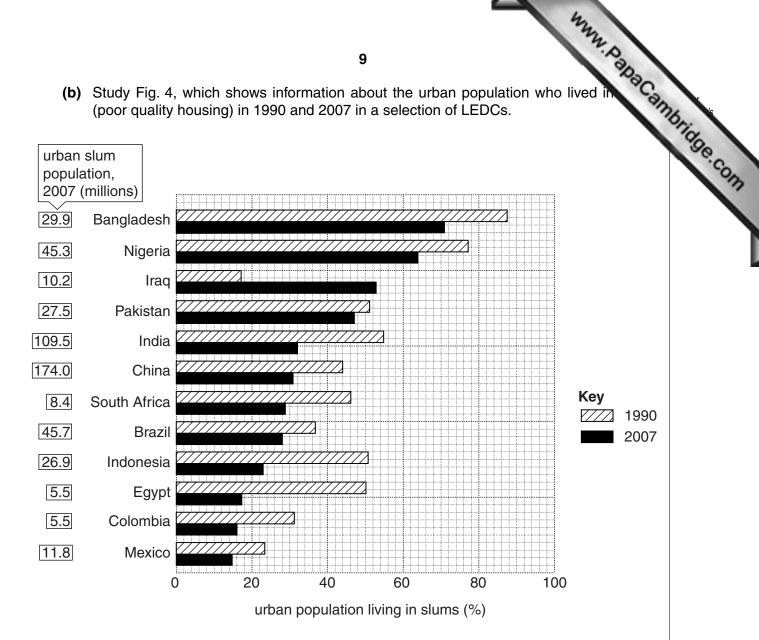


Fig. 4

- Identify the country where:
  - Α the highest number of people lived in slums in 2007;

the highest **percentage** of the population lived in slums in both 1990 and 2007; В

the **percentage** of people living in slums increased between 1990 and 2007. C

[3]

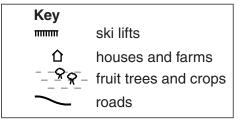
(ii)	Explain why many people in cities in LEDCs live in slums.
	[5]
Nam	ne a city and describe what has been done to improve living conditions in the slums d there.
	ne of city
	[7]

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### **QUESTION 3**

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

# Snow Indianation old lava rocky flows land land village retrible RARA COLUMN PRACTION OF THE RETRIBUTE RARA COLUMN PRACTION OF THE RAY C



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Fig. 5A

### After eruption

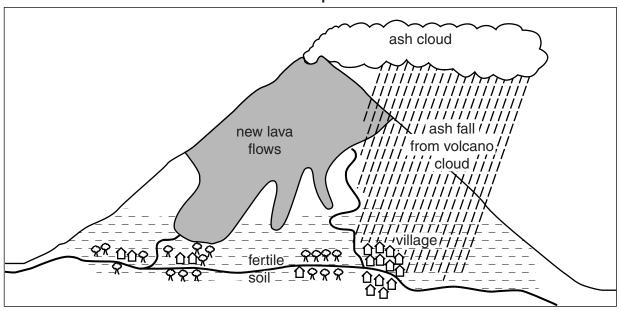


Fig. 5B

[Turn over

(i)	Identify a tourist facility shown on Fig. 5A, which was destroyed by the veruption.  [1]  Describe <b>two</b> likely problems for people who live in the area shown on Figs 5A and 5B as a result of the volcanic equation.	Bridge
(ii)	Describe <b>two</b> likely problems for people who live in the area shown on Figs 5A and 5B as a result of the volcanic eruption.	SCOM
	1	1
	2	
(iii)	Explain why some volcanoes erupt on <b>constructive</b> (divergent) plate boundaries.	
(iv)	Describe the opportunities offered by volcanoes for people who live close to them.	
	[4]	

(b) Study Fig. 6, which shows the location of the Himalayas mountains and Mt. Even

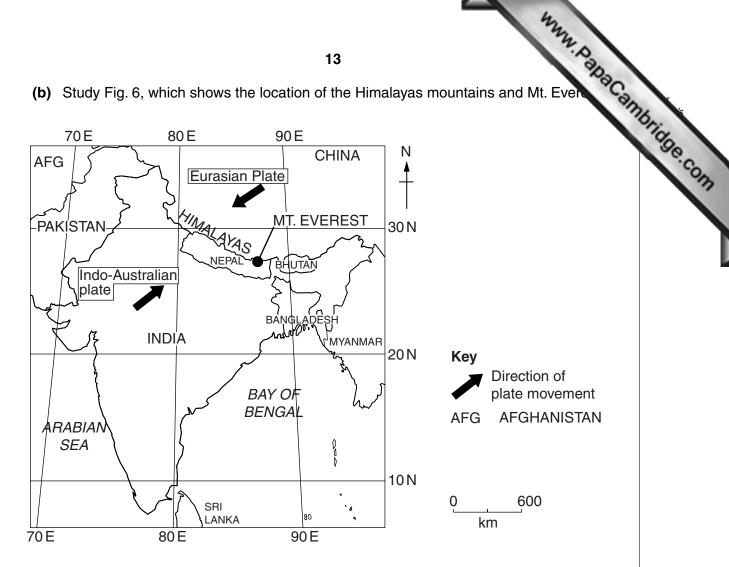


Fig. 6

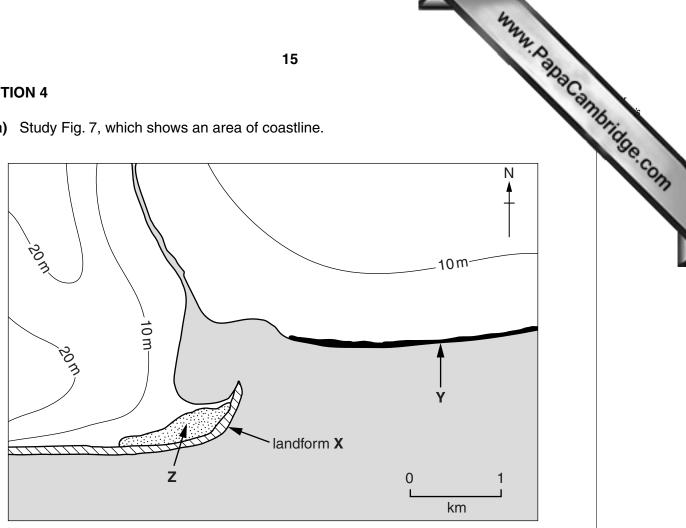
(i)

escribe the location of Mt. Everest.	
	•
	•
[	3

•
Explain how the Himalayas were formed as a result of plate movement.
[5]
an area which you have studied where there has been an earthquake. ribe the effects of this earthquake.
e of area
[7]

[ Total: 20 marks

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



Key

10 m—	height above sea level
	clay cliffs
	sand and shingle
	sand dunes

Fig. 7

(i)	Identify the coastal landform labelled <b>X</b> on Fig. 7.	
		_

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

1			
2	 	 	
			[2]

xplain how coastal processes fo agram.			
			[3]
xplain how sand dunes are forme g. 7.	d in areas of coas	stal lowland, such a	s area <b>Z</b> on

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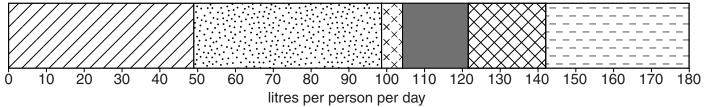
the state of the s	
18 A	
Most deltas are located on the coast. Describe the benefits and problems of livit delta which you have studied.  Name of delta	a.
Name of delta	Tage
	COM
[7]	
[Total: 25 marks]	

**END OF QUESTION 4** 

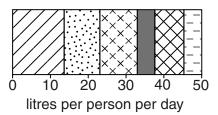
(c)

www.PapaCambridge.com 5 (a) Study Fig. 8, which shows information about domestic use of water in Norway (MEDC Europe) and Sudan (LEDC in Africa).

### **Norway**



### Sudan



## Kev

,	
	washing
	toilet
$\begin{array}{c} \times \times$	cooking and drinking
	washing dishes and cleaning
$\boxtimes\!\!\!\boxtimes$	washing clothes
	other uses

Fig. 8

(i)	What is meant by domestic use of water?
	[1]
(ii)	Compare the <b>total</b> daily domestic use of water per person in Norway and Sudan. Use statistics from Fig. 8 in your answer.
	[2]

	20
(iii)	Using evidence from Fig. 8 only, identify three other differences between domestic use of water in Norway and Sudan.  1
	1
	2
	3
(iv)	Suggest reasons for differences in the domestic use of water in Norway and Sudan.
	[4]

(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 height of the dam has been raised by over 9 metres.

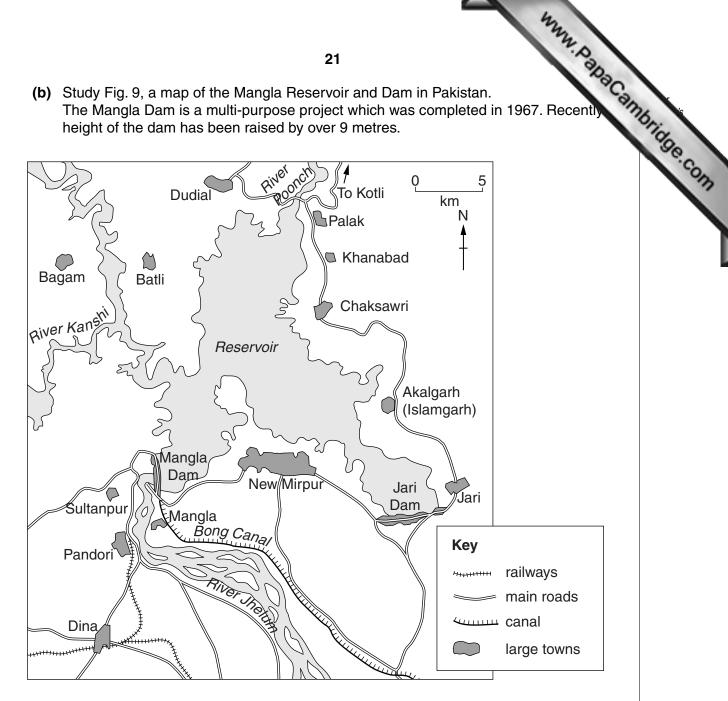


Fig. 9

(i)

Describe the location of the Mangia Dam.	
[3	₹1
	1

	22	
i)	Suggest the benefits and problems of increasing the height of the Mangla people living in the area shown in Fig. 9.	Andr.
		age
		-
	[5	:1
		וי
Van	me an example of a sea, lake or river which has been polluted by human activit	y.
es	me an example of a sea, lake or river which has been polluted by human activit scribe the causes of pollution and its effects on the natural environment.  me of sea, lake or river	y.
Des	scribe the causes of pollution and its effects on the natural environment.	y. 
Des	scribe the causes of pollution and its effects on the natural environment.	y. 
es	scribe the causes of pollution and its effects on the natural environment.	y. 
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es	scribe the causes of pollution and its effects on the natural environment.	y
es	scribe the causes of pollution and its effects on the natural environment.	y
es	scribe the causes of pollution and its effects on the natural environment.	y
es	scribe the causes of pollution and its effects on the natural environment.	y
Des	scribe the causes of pollution and its effects on the natural environment.	y

**END OF QUESTION 5** 

### **QUESTION 6**

www.PapaCambridge.com (a) Study Fig. 10, which shows the environmental impacts of producing a brand processed cheese, along with Photograph B (Insert) which shows this manufactured product.

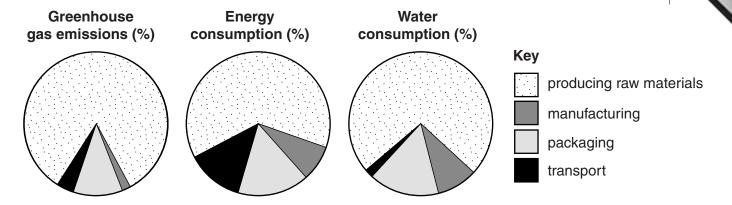


Fig. 10

(i)	During which stage is there the greatest environmental impact? Underline the correct answer.
	producing raw materials
	manufacturing
	packaging
	transport [1]
(ii)	Identify <b>two</b> ways in which the transport of the manufactured product may damage the natural environment.
	1
	2

	Mary Mary	
	24	
(iii)	Suggest three ways in which the environmental impacts of producing transporting this manufactured product could be reduced.  1	8
	1	Tage
		ATT.
	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 the manufacture of computers.

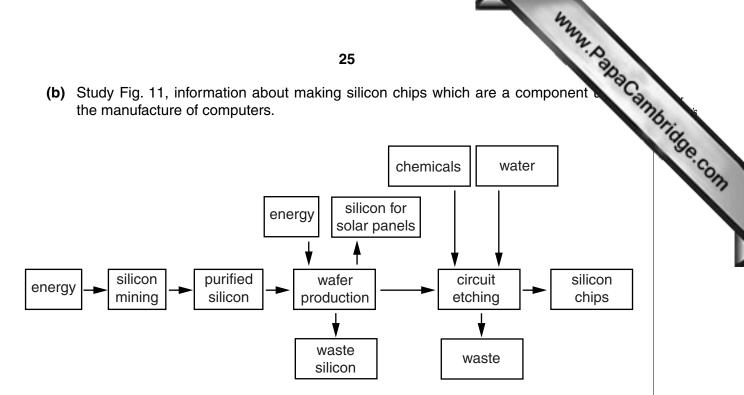


Fig. 11

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

Input	
Process	
Output	[3]

	my	
	26	
(ii)	Silicon is also a component of solar panels which are used to generate energy, an alternative to using fossil fuels.  Explain why in many countries only small amounts of alternative energy source are used.	bridge.c.
		OH
		1

27	
Name an area where manufacturing or processing industry is important and example of a type of industry (or factory) which you have studied in that area. Experimentally the reasons for its growth at that location.  Name of area	i i
Name of area	Se.Co.
Type of industry	13
[7]	
[Total: 25 marks]	

**END OF QUESTION 6** 

### **Additional Page**

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28	M. D.
Additional Page	ABC A
you use the following lined page to complete the answer(s) to any que umber(s) must be clearly shown.	stion(s), the question
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Question 2 Fig. 4 © adapted: Slums Graph; http://filipspagnoli.wordpress.com/stats-on-human-rights/statistics-on-poverty/statistics-on-poverty-

urbanization-and-slums.

S Sibley © UCLES. Question 4 Photograph A

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-development-and-de

Question 6 Fig. 11 © adapted: http://cartanova.ca/green-business-blog/item/71-the-environmental-impact-of-the-internet.

S Sibley © UCLES. Question 6 Photograph B

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