

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

	CANDIDATE NAME						
	CENTRE NUMBER				]	CANDIDATE NUMBER	
	GEOGRAPHY						0460/13
л	Paper 1					0	ctober/November 2013
							1 hour 45 minutes
<u>م</u>	Candidates answe	er on the	Question Pa	aper.			
	Additional Materia		Calculator Protractor				

### **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 Fig. 4 for Question 2 and Photographs A, B and C 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 24 printed pages, 4 blank pages and 1 Insert.



UNIVERSITY of CAMBRIDGE International Examinations

[Turn over

#### **QUESTION 1**

(a) Study Fig. 1, which shows information about the birth and death rates of Zambia (LEDC) and Italy (MEDC) in 2011.

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Country	Birth rate (per 1000 of population)	Death rate (per 1000 of population)
Zambia	44.1	16.6
Italy	9.2	9.8

#### Fig. 1

(i) What evidence in Fig. 1 suggests that Italy had a natural population decrease in 2011?

......[1]

(ii) Calculate the natural population growth rate of Zambia. You must show your calculations.

Natural population growth rate = ..... per 1000

[2]

(iii) Give three reasons why there are high death rates in LEDCs such as Zambia.

(iv) Explain why there are low birth rates in MEDCs such as Italy.

(b) Study Fig. 2, which shows a population pyramid for Zambia (an LEDC in Africa).





(i) Suggest **three** ways in which the population pyramid for an MEDC is likely to be different from the population pyramid for Zambia (LEDC).



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	(ii)	Describe the likely problems for an LEDC of having many young dependents.	For Examiner's
			Use
		[5]	
(c)	For use	a named example of a country you have studied, describe the policy or policies d by the government to reduce birth rates.	
		ne of country	

[Total: 25 marks]

# **END OF QUESTION 1**

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Fig. 3

(i) What is meant by the term residential area?

......[1]

**QUESTION 2** 

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(ii)	Which of the residential areas A or B:	For
	is the most densely populated;	Examiner's Use
	has the newest houses?	
	Give reasons for your choices.	
	Most densely populated area	
	Reason	
	Area with newest houses	
	Reason	
	[2]	
(iii)	Using Fig. 3 <b>only</b> , identify <b>three</b> differences between the numbers of people from each socio-economic group who live in areas <b>A</b> and <b>B</b> .	
	1	
	2	
	3	
	[3]	
(iv)	State <b>two</b> advantages and <b>two</b> disadvantages of living in an inner city area in an MEDC.	
	Advantage 1	
	Advantage 2	
	Disadvantage 1	
	Disadvantage 2	
	[4]	

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(b)		udy Fig. 4 (Insert), which shows land use in part of Austin, Texas, which is in the USA EDC).		
	(i)	Identify <b>three</b> non-residential types of land-use north of Slaughter Lane and east Manchaca Road.	of	
		1		
		2		
		3	[3]	
	(ii)	There is a proposal to convert a vacant property in Manchaca Road into a cinem Explain why some local people may support this change but others will oppose it		
			[5]	

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# [Total: 25 marks]

# END OF QUESTION 2

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(c) For a named town or city where urban sprawl has occurred, describe how the land-use

Name of town or city .....

has changed in the area surrounding the city.

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#### **QUESTION 3**

(a) Study Fig. 5, a map which shows major plates and some fold mountains.



Fig. 5

(i) What is meant by *fold mountains*?
[1]
(ii) Use Fig. 5 to name the two plates which are moving towards each other forming the Andes.
1
2

(iii) Explain how fold mountains are formed in some areas where plates are moving For towards each other. Examiner's Use ..... (b) Study Fig. 6, which shows the main features of an active volcano. ash cloud crater pyroclastic flow volcanic bombs main vent lava flow secondary cone secondary vent magma chamber Fig. 6 (i) Using ideas from Fig. 6, describe three different hazards which an active volcano may cause for people. 1 ..... 2 ..... ..... 3 ..... .....[3]

#### [Turn over www.theallpapers.com

(ii)	Explain why there are active volcanoes along destructive plate boundaries.	For Examiner's
		Use
	[4]	
(iii)	Explain how an area of volcanic activity can provide opportunities for people living there.	

(c)	For a named area which you have studied, describe the impacts of an earthquake.	For
	Name of area	Examiner's Use
	[7]	
	[Total: 25 marks]	
		1

# **END OF QUESTION 3**

#### **QUESTION 4**

(a) Study Fig. 7, an extract from the diary of a sailor.

As we left the harbour at 09.00 hrs on the 29th July the sky was almost clear, with just a few wispy, feather-like clouds. There was a strong westerly wind, but the temperatures were warm. By 14.00 hrs the wind speed had dropped and it was blowing from the north west.

Temperatures had fallen several degrees and very tall, dome-shaped clouds with dark bases had formed. The visibility was getting less.

As the rain started to fall we sailed back home but by the time we reached the harbour we were very wet.

#### Fig. 7

(i)	What is meant	by westerly wind?		
				[1]
(ii)	Suggest what t	he cloud type was at 09.0	0 hrs and 14.00 hrs.	
	Choose from th	ne following list:		
	cirrus	cumulonimbus	cumulus	stratus
	09.00			
	14.00			[2]
(iii)	ldentify <b>three</b> d 29th July.	lifferences in the weather	between the mornin	g and the afternoon of
	1			
	2			
	3			
				[3]



(b) Study Fig. 8, which shows a weather station and some of the instruments used in it.

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sunshine recorder ......[3]

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accu	cribe and explain where a weather station should be located in order to obtain rate data.
	[4]
•••••	[4]
Desc You i	cribe the main features of a rain gauge and explain how it is used. may use labelled diagrams in your answer.
•••••	
· · · · · · · · · · · · · · · · · · ·	

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[5]

(c)	Ch	oose an example of <b>one</b> of the following types of weathering:	For
	_	freeze-thaw weathering;	Examiner's Use
	_	exfoliation;	
	_	biological weathering.	
	Exp Use	plain how your chosen weathering process occurs. e labelled diagrams in your answer.	
	Тур	be of weathering process	
		[7]	
		[Total: 25 marks]	

**END OF QUESTION 4** 

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### **QUESTION 5**

#### For Examiner's Use

(a) Study Fig. 9, which shows information about the possible impacts of climate change in northern and eastern Canada.

Climate change could be caused by an increase in greenhouse gases in the atmosphere.



(I)	Name one greenhouse gas.	
		[1]
(ii)	Identify from Fig. 9 a way in which climate change might:	
	reduce energy demand;	
	increase energy supply.	
		[2]

(iii)	Identify <b>three</b> ways in which climate change might affect agricultural systems around the world.	For Examiner's Use
	1	
	2	
	3	
	[3]	
(iv)	Describe the possible impacts of climate change on the natural environment.	
	[4]	

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## (b) Study Fig. 10, a graph which shows average annual temperatures at Fairbanks, Alaska.

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(i) Describe the changes in the average annual temperature in Fairbanks between 1906 and 2002. Refer to statistics and years in your answer.

..... .....[3]

	of greenhouse gases. Explain why greenhouse gases are increasing in the atmosphere.
	[5]
Nar	ne of river, lake or sea
Nar	ne of river, lake or sea
Nar	ne of river, lake or sea
Nar	ne of river, lake or sea
Nar	

[Total: 25 marks]

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### **QUESTION 6**

(a) Study Fig. 11, which shows information about the costs and benefits of tourism.



Fig. 11

(i)	Give one example of a job in the tourist industry.
	[1]
(ii)	Using Fig. 11 <b>only</b> , identify one environmental cost and one environmental benefit of the tourist industry.
	Environmental cost
	Environmental benefit
	[2]

(iii) Use Fig. 11 and your own ideas to explain how tourism can 'undermine social standards'. Examiner's ..... ..... .....[3] Many people who live in areas where tourism is important are not directly employed (iv) in the tourist industry. Explain how they might still benefit from tourism. ......[4] (b) Study Photographs A, B and C (Insert), which were taken on the island of Mauritius (LEDC in the Indian Ocean). (i) Use evidence from each photograph to give different reasons why Mauritius is attractive to tourists. Photograph A ..... Photograph B ..... Photograph C ..... .....[3]

#### [Turn over www.theallpapers.com

For

Use

Explain why it is easier to develop tourism than manufacturing industry in LEDCs.
[5]
a named area which you have studied where the tourist industry is important, cribe what has been done in the area to conserve the natural environment.

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Additional Page	For
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

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