

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

CANDIDATE NAME		
 CENTRE NUMBER	CANDIDATE NUMBER	
GEOGRAPHY		0460/23
Paper 2		May/June 2013
		1 hour 30 minutes
Candidates answ	ver on the Question Paper.	
Additional Materia	als: Ruler Plain paper	

1:25000 Survey Map Extract is enclosed with this question paper.

Calculator

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 ON ANY BARCODES.

Answer **all** questions.

The Insert contains Photograph A for Question 2.

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

The Survey Map Extract and the Insert are **not** required by the Examiner.

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 14 printed pages, 2 blank pages and 1 Insert.



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(d) (i) Look at the villages of Lalmatie, Haut de Flacq and Happy Village in the north east of the map. For each description in the table below, write the name of the village which best fits that description.

.....[4]

description	name of village
most nucleated	
most linear	
most industrial	
on the lowest site	

[4]

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(ii) Look at the services in each of the three villages in (d)(i).

Which village is likely to have the largest sphere of influence? Give one reason for your answer.

Name of village Reason[1] [Turn over

3

0460/23/M/J/13

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(e) (i))	Identify the natural vegetation in grid square 1100. [1]							For Examiner's Use
(ii)		Measure the distance in metres along the road from the road junction at 152991 to where the road leaves the map at 180005. Circle the nearest distance to your answer.							
			3050	3200	3350	3500	metres	[1]	
(iii))	What type of public building is at grid reference 145006?							
		[1]							
								[Total: 20 marks]	

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Study Photograph A (Insert) of a limestone coast. Use Photograph A to answer the following

(a) Identify the coastal features which are indicated by the letters on Photograph A. Choose

2

questions.

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from:

	letter	name of feature
	W	
	X	
	Y	
	Z	
(b) Name	the landform which c	nce joined W and X on Photograph A.
(c) Use P face.	hotograph A to sugg	est why feature Y has been formed at that height on the cl
face.		est why feature ${f Y}$ has been formed at that height on the cl
face.		est why feature Y has been formed at that height on the cl
face. (d) What e	evidence is there that	est why feature Y has been formed at that height on the cl [Photograph A was taken when the tide was low?
face. (d) What e	evidence is there that	est why feature Y has been formed at that height on the c Photograph A was taken when the tide was low?
face. 	evidence is there that	est why feature Y has been formed at that height on the cl Photograph A was taken when the tide was low?

3 (a) Table 1 gives information about actual and expected changes in the population of Brazil between 1995 and 2025.

Table 1

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Use

year	1995	2005	2015	2025
population (millions)	164	189	212	232
birth rate (per 1000)	22	20	17	15
death rate (per 1000)	6	6	6	7
net number of migrants (in thousands)	-13000	-17000	-17000	-19000

(i) Complete the graph, Fig. 2 (below), to show actual and expected changes in Brazil's total population between 1995 and 2025 by plotting the figures for the period between 1995 and 2015.





(ii) Use Table 1 to explain why Brazil's population is growing over the period shown.	For Examiner's Use
	[1]	
(i	ii) What does the 2005 net migration figure of -17000 indicate?	
	[1]	1
(i	v) Calculate the expected natural increase of population in 2025. Show your working.	
	[2	1
	Brazil's infant mortality rate dropped from 39 per thousand births in 1995 to 22 per thousand births in 2010. Suggest two possible reasons for this change.	
	1	
:	2	
	[2]	
	[Total: 8 marks]	

7



4 (a) Figs 3A and 3B show the locations of deserts in North America and Australia.

Fig. 3B 0460/23/M/J/13

What type of ocean current is offshore near both these deserts? (i) For Examiner's Use[1] (ii) Compare the latitudes over which the Mojave and Great Australian Deserts extend.[1] (iii) State **one** way in which the location of these deserts is similar.[1] (iv) Will the season be summer or winter in the Australian Desert in December? Explain your answer. Season because[1]

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[Total: 8 marks]

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11

Turn over for Question 5





- (i) Complete Fig. 5 to show that 440 million tourists arrived in Europe and 135 million arrived in the Americas in 2005. Use the key provided.
 [1]
- (ii) Which region has attracted most tourists in each of the years shown on Fig. 5?

.....[1]

(a) Fig. 5 gives information about the number of tourists arriving in different regions of the

5

world in 1965,1985 and 2005.

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	(iii)	How many t	ourists	arrived i	n the Mi	ddle Eas	t in 2005? C	ircle the correct answe	101
			39	49	760	810	million		[1] <i>Examiner's</i>
	(iv)	Approximate the Pacific?					ourist arrivals	in 1985 were to Asia	and
				<u>1</u> 10	<u>3</u> 10	<u>6</u> 10	<u>9</u> 10		[1]
	(v)	Compare the change betw				ist arriva	als between	1965 and 1985 with	the
									[2]
(b)		ome years, t sons for this.	tourist a	rrivals a	re lower	r than in	previous yea	ars. Suggest two poss	sible
	1								
	2								
									[2]

[Total: 8 marks]

6 Fig. 6A shows the average amounts of water available per person for countries in Africa. Fig. 6B shows the variation in annual rainfall in Africa.



(b) (i) Describe the distribution of the countries with the lowest water availability in Africa.

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(ii) Complete the table below by inserting the name of countries which have the water availability and rainfall described in the table. Select **only** from the countries named in Fig. 6A.

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country	water availability (m ³ per person per year)	annual rainfall
	15000 and over	2000 mm and over
	15000 and over	1000 – 1999 mm
	0 – 999	0 – 249 mm

[3]

(iii) Suggest **two** reasons why some countries with high rainfall are unable to supply enough water to meet demand.

1		
••		••
2		
••	[1	2]

[Total: 8 marks]

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16

Copyright Acknowledgements:

Question 1 Map© adapted: Haut de Flacq, Mauritius; Eastings 11-18, Northings 96-01; Government of Mauritius; 1989.Question 2 Photograph AMuriel Fretwell © UCLES.Question 3 Table 1© adapted: CIA World Factbook; US Census Bureau; www.census.gov/ipc/www/idb/county.php; 3 May 2011.Question 5 Fig. 5© adapted: UN World Tourism Organisation; 9284402212; http://publications, unwto.org/ca/node28528; November 2006 Edition.Question 6 Figs 6A & 6B© adapted: Aquastat Database, IWMI; Food and Agriculture Organisation; 2011.

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0460/23/M/J/13