

CANDIDATE

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

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NAME				
CENTRE NUMBER		CANDIDATE NUMBER		

GEOGRAPHY 0460/23

Paper 2 May/June 2013
1 hour 30 minutes

Candidates answer on the Question Paper.

Additional Materials: Ruler

Plain paper Calculator

1:25 000 Survey Map Extract is enclosed with this question paper.

### **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.

iner's Use

This document consists of 14 printed pages, 2 blank pages and 1 Insert.



- 1 The map extract is for Haut de Flacq, Mauritius. The scale is 1:25 000.
  - (a) Fig. 1 shows the position of some features in the east of the map extract.

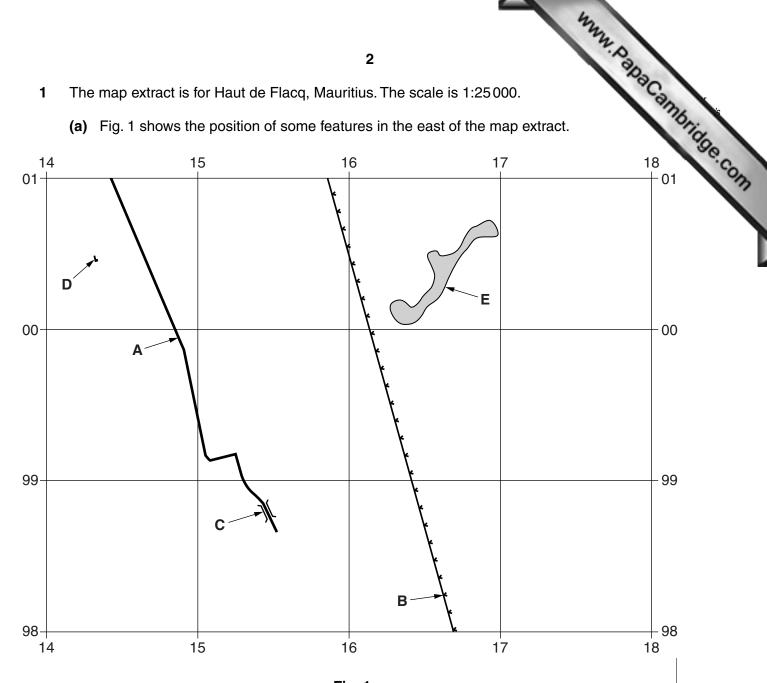


Fig. 1

Study the map and identify the following features shown on Fig. 1:

(i)	the type of road at <b>A</b> ;
(ii)	[1] feature <b>B</b> ;
(iii)	the feature used by the road at <b>C</b> ;
(iv)	the type of public building marked <b>D</b> ;
(v)	the vegetation in the shaded area at <b>E</b> .

.....[1]

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extra		by the District Boundary in the western	part of the part o
			[3]
	ariba tha faaturaa of tha	Diver du Deste between coetings 16 and	
Des	cribe the leatures of the	River du Poste between eastings 16 and	18.
			[4]
(i)		almatie, Haut de Flacq and Happy Village escription in the table below, write the na cription.	in the north east
(i)	of the map. For each d	escription in the table below, write the na	in the north east
(i)	of the map. For each d which best fits that desc	escription in the table below, write the na cription.	in the north east
(i)	of the map. For each d which best fits that description	escription in the table below, write the na cription.	in the north east
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(i)	of the map. For each d which best fits that description  most nucleated  most linear	escription in the table below, write the na cription.	in the north east
(i)	of the map. For each d which best fits that description  description  most nucleated  most linear  most industrial	escription in the table below, write the na cription.	in the north east
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	description  most nucleated  most linear  most industrial  on the lowest site	escription in the table below, write the nacription.  name of village	e in the north east time of the village
	description  description  most nucleated  most linear  most industrial  on the lowest site  Look at the services in of the work of the wor	escription in the table below, write the natoription.  name of village  each of the three villages in (d)(i).	in the north east time of the village  [4]
	description  most nucleated  most linear  most industrial  on the lowest site  Look at the services in a which village is likely to your answer.	escription in the table below, write the natoription.  name of village  each of the three villages in (d)(i).  have the largest sphere of influence? Given	in the north east time of the village  [4]
(i)	description  description  most nucleated  most linear  most industrial  on the lowest site  Look at the services in or which village is likely to your answer.  Name of village	escription in the table below, write the natoription.  name of village  each of the three villages in (d)(i).  have the largest sphere of influence? Given	in the north east time of the village  [4]

(e) (i)	) Identii	fy the natura	al vegetatio	on in grid so	quare 1100	).	PACAM
(ii)		ere the roa		·			junction at 152991 est distance to your
<b>(1111</b> )	)	3050	3200	3350	3500	metres	[1]
(iii)	) what	type of pub		is at grid re	eference 14	45006?	[1]
							[Total: 20 marks]

2	Study Photograph A (Insert) of a limestone coast. Use Photograph A to answer the fo
	questions.

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

arch, bay, cave, coral reef, headland, spit, stack

Write your answers in the table below.

letter	name of feature
W	
Х	
Υ	
Z	

[4]

(b)	Name the landform which once joined <b>W</b> and <b>X</b> on Photograph A.
	[1]
(c)	Use Photograph A to suggest why feature $\mathbf{Y}$ has been formed at that height on the cliff face.
	[1]
(d)	What evidence is there that Photograph A was taken when the tide was low?
	[1]
(e)	Name <b>one</b> erosion process that may have formed the wave-cut notch shown on Photograph A.
	[1]
	[Total: 8 marks]

[Turn over

population of the Connection o

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

Table 1

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.

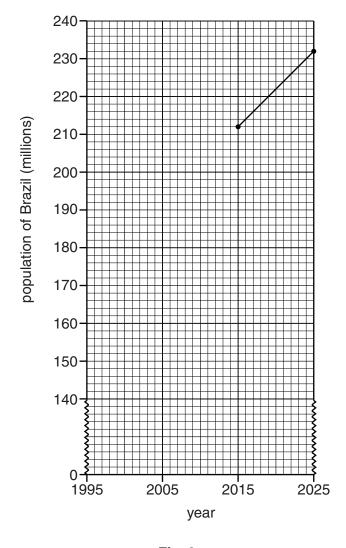


Fig. 2

(b) 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.

[Total: 8 marks]

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www.PapaCambridge.com (a) Figs 3A and 3B show the locations of deserts in North America and Australia. 0 400 800 1200 km 38° N North America Californian Mojave Desert Current Pacific Ocean Gulf of Mexico 23½° N 23½°N prevailing winds Key Fig. 3A desert ocean current Pacific Ocean 20° S 20° S prevailing winds 231/2° S 23½°S Great Australian Desert 30° S 30° S West Australian prevailing winds Current 1200 400 800 km

Fig. 3B

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

(b) Fig. 4 shows air movement between the Equator and  $30^\circ$  north and south.

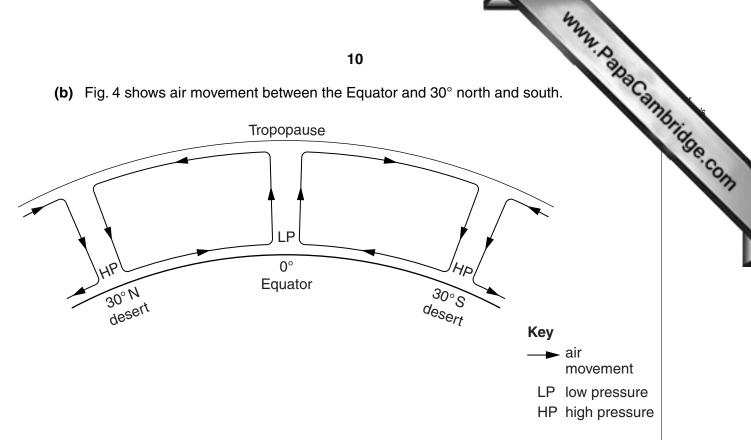


Fig. 4

What changes are occurring in the air above the deserts? Tick two choices in the table below.

	Tick (✓)
cooling	
expanding	
relative humidity increasing	
rising	
sinking	
warming	

[2]	
-----	--

(ii)	What is the type of pressure where the deserts are located?
	[1]
(iii)	How does the wind pattern in Australia on Fig. 3B indicate the type of pressure you have named in <b>(b)(ii)</b> ?
	[1]

[Total: 8 marks]

11

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**Turn over for Question 5** 

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5 (a) Fig. 5 gives information about the number of tourists arriving in different regions world in 1965,1985 and 2005.

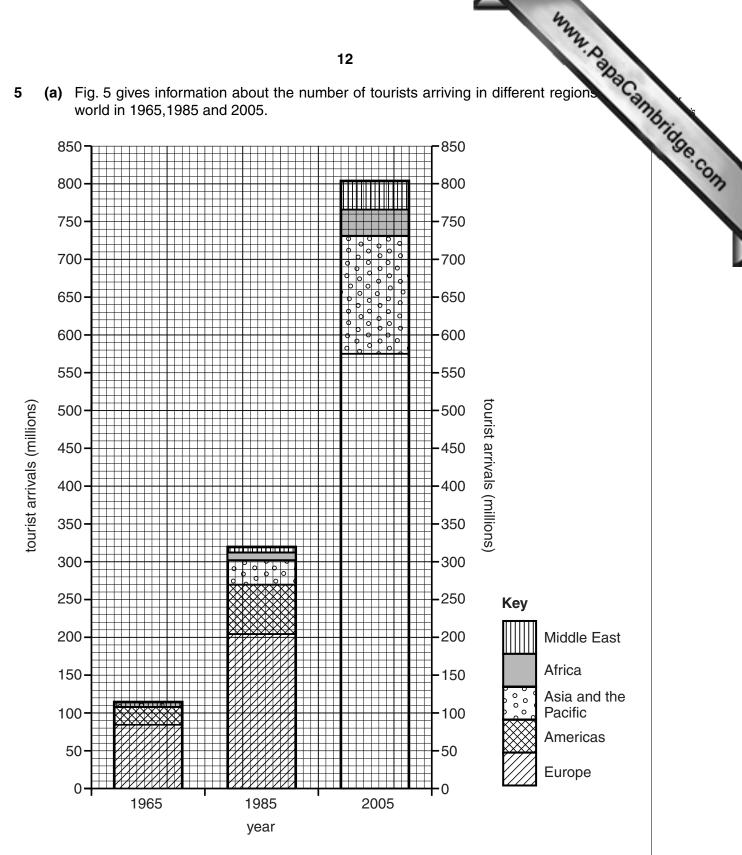


Fig. 5

- 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?

				13		· Agy
(iii)	How many tour	ists arrived	in the Mid	ddle East	in 2005? Circle the o	orrect and
	39	9 49	760	810	million	
(iv)	Approximately the Pacific? Cir				urist arrivals in 1985	orrect answere to Asia and
		1	<u>3</u>	6	9	
		10	10	10	10	[1]
						[0]
						[∠]
	ome years, tour				orevious years. Sugg	
rea	sons for this.	ist arrivals	are lower	than in p		est <b>two</b> possible
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rea:	sons for this.	ist arrivals	are lower	than in p	orevious years. Sugg	est <b>two</b> possible

[Turn over

www.papaCambridge.com 6 Fig. 6A shows the average amounts of water available per person for countries in Fig. 6B shows the variation in annual rainfall in Africa. Egypt Liberia Nigeria Kenya Congo Namibia South **Africa** 500 1000 Key available water Key (m<sup>3</sup> per person per year) annual rainfall (mm) 15000 and over 2000 and over 1000 - 19992500 - 149991000 - 2499250 - 9990 - 9990 - 249Fig. 6A Fig. 6B Table 2 water available per person (m<sup>3</sup> per person country per year) Namibia 6130 South Africa 1400 (a) Complete Fig. 6A using the information in Table 2. Use the key provided. [1] Describe the distribution of the countries with the lowest water availability in Africa. (b) (i)

www.PapaCambridge.com (ii) Complete the table below by inserting the name of countries which have the availability and rainfall described in the table. Select only from the countries na. in Fig. 6A.

country	water availability (m <sup>3</sup> 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 <b>two</b> reasons why some countries with high rainfall are unable to supply enough water to meet demand.	
	1	
	2	
	[2]	

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[Total: 8 marks]

16

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#### Copyright Acknowledgements:

Question 1 Map @ adapted: Haut de Flacq, Mauritius; Eastings 11-18, Northings 96-01; Government of Mauritius; 1989.

Question 2 Photograph A Muriel 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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