

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

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CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		

GEOGRAPHY 0460/22

Paper 2 October/November 2012

1 hour 30 minutes

Candidates answer on the Question Paper.

Additional Materials: Ruler

Protractor Plain paper

1:50 000 Survey Map Extract is enclosed with this Question Paper.

### **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.

## Answer all questions.

The Insert contains Photographs A and B for Question 3.

The Survey Map Extract and the Insert are **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 16 printed pages and 1 Insert.



1 Study the map extract, which is for Beitbridge, Zimbabwe. The scale is 1:50 000.

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(a) Fig. 1 shows some of the features in the south west part of the map extract. Study Fig. 1 and the map extract, and answer the questions below.

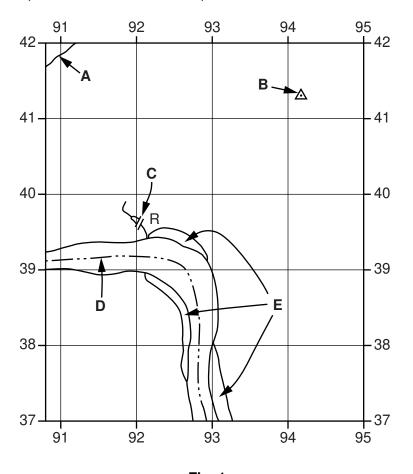


Fig. 1

Using the map extract, identify the following features shown on Fig. 1:

		F41
		111

------[']

[1]

.....[1]

.....[1]

.....[1]

.....[1]

.....[۱]

(v) the vegetation at E.

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the type of boundary along the river at **D**;

(i)

(ii)

(iii)

(iv)

the type of road at **A**;

feature B;

feature C;

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<b>(b)</b> St	<b>(b)</b> Study the area around Beitbridge Station in the north west of the map extract.						
(i)	(i) Give the six figure grid reference of the bridge where the railway crosses over the wide tarred road. Circle <b>one</b> correct answer below.						
		427913	914428	922428	912427		[1]
(ii)	) What feature	is used to ke	eep the railwa	y level in this a	area?		
							[1]
(iii)			evidence that sheep or catt	suggest the a le).	rea around E	Beitbridge St	ation
	1						
	2						[2]
Tł	tudy the three n ne table below cks (🗸) in the co	compares fe	atures of the	three rivers. C	Complete the		
		Limpopo	Lipande	Tombwane	All of these rivers	None of these rivers	
	nnel more than m wide						
man	y tributaries						
1 -	from north to south west						[3]

(d) Fig. 2 is a cross section along northing 42 from 980420 to 040420.

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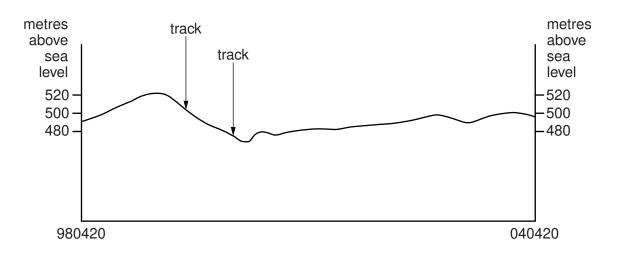


Fig. 2

On Fig. 2, using labelled arrows, mark the positions of:

(i) the Lipande river; [1](ii) a gravel or earth road; [1]

(iii) a power line. [1]

(e) Fig. 3 shows area **X** in the south east of the map extract, south and east of the Tombwane river.

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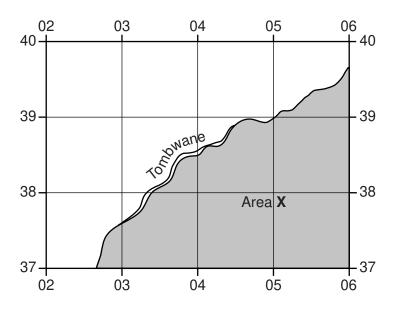


Fig. 3

[3]

(ii) Identify **one** type of transport available to people living in area **X**.

.....[1]

(iii) What is the height above sea level of the highest point in area X? Tick (✓) one box below.

Height	Tick (✓)
under 500 m	
520 m	
560 m	
over 600 m	

[1]

[Total: 20 marks]

**2** Fig. 4 is a map showing the coastal settlement of Sargent Beach in Texas, USA. The area has been affected by coastal erosion.

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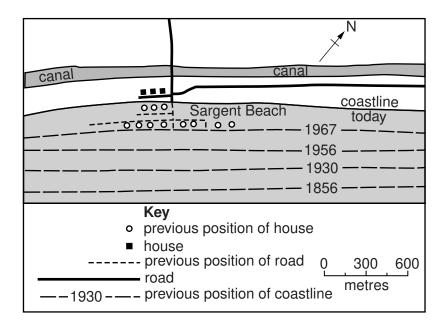


Fig. 4

(a) (i) State **two** human features of the settlement at Sargent Beach which have been destroyed by coastal erosion since 1967.

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(ii) Measure the distance that the coastline has retreated at Sargent Beach since 1856. Tick (✓) **one** box below.

Distance	Tick (✓)
250 m	
450 m	
650 m	
850 m	

[1]

b)	(i)	Name <b>one</b> process of erosion which may have caused the coastline to retreat.		_
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		]	11	Us

(ii) Which is the correct description of the waves that have affected the coast? Tick (✓) one box below.

Description of wave	Tick (✓)
Constructive. Swash stronger than backwash.	
Destructive. Swash stronger than backwash.	
Destructive. Backwash stronger than swash.	
Constructive. Backwash stronger than swash.	

[1]

(c) Fig. 5 is a graph showing the amount of coastal erosion at Sargent Beach since 1856.

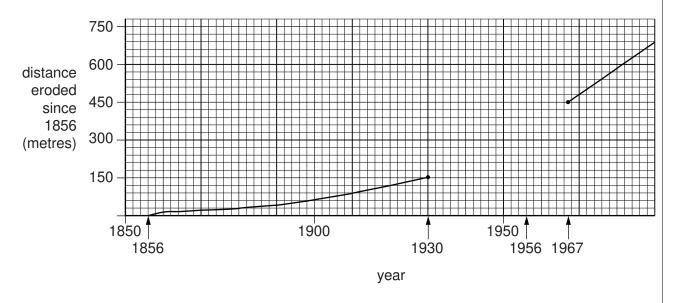


Fig. 5

- (i) The distance eroded by 1956 was 300 metres. Complete Fig. 5 by adding this information. [1]
- (ii) How has the rate of coastal erosion changed?

.....

(d)		state of Texas is considering engineering projects to protect Sargent Beach and lar areas from coastal erosion.	For Examine Use
	(i)	Using evidence from Fig. 4, suggest <b>one</b> advantage of the project for Sargent Beach.	
		[1]	
	(ii)	Suggest <b>one</b> possible disadvantage of such projects.	
		[1]	
		[Total: 8 marks]	

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[Total: 8 marks]

4 (a) Table 1 below lists five types of population migration, A–E.

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Table 1

Α	internal migration
В	international migration
С	rural-urban migration
D	voluntary migration
Е	involuntary migration

For each of the following definitions, select the correct letter from Table 1:

- (i) migration of people to another country; Letter ...... [1]
- (ii) migration because of conflict, natural disasters or famine. Letter ...... [1]
- (b) Fig. 6 is a map showing cities with more than a million foreign born residents.

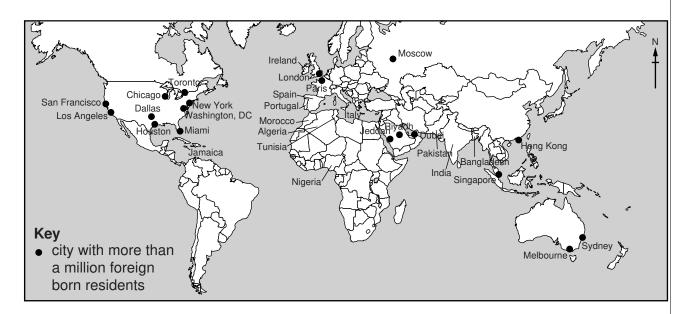


Fig. 6

Describe the distribution of the cities on Fig. 6.
[3]

(c)	Figs 7A and 7B show the countries of origin of foreign born residents of London and	d
	Paris, two of the cities shown on Fig. 6.	

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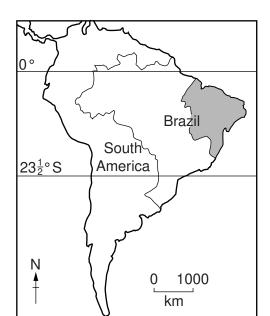
Fig. 7A Fig. 7B

Using Figs 6, 7A and 7B, describe the differences in the countries of origin of the foreign born residents of London and Paris.
[3]

[Total: 8 marks]

**5** Figs 8 and 9, and Table 2, give information about North East Brazil which has a growing tourist industry. Study the information and answer the questions on the opposite page.

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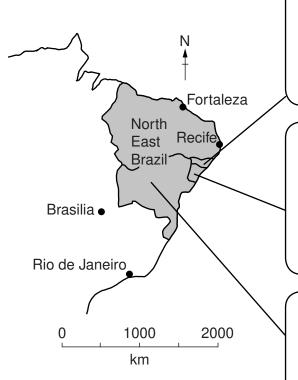
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Month	Temperature (°C)	Heat and humidity	Rainfall (mm)
J	27	high	53
F	27	high	84
М	27	high	160
Α	26	high	221
М	25	medium	267
J	25	medium	277
J	24	medium	254
Α	24	medium	152
S	25	medium	64
0	26	medium	25
N	26	medium	25
D	27	medium	28

Fig. 8

## Alagoas

Beauty spots can be found all along the 230km of coastline with dazzling blue seas. In the north, long stretches of coral reef act as barriers to the waves and provide calm warm waters ideal for bathing and other recreational activities. The reefs provide excellent scuba diving.



## Sergipe

This small state has 30km of sandy coastline with many market stalls. São Cristovão is the fourth oldest city in Brazil and has a lot of 17<sup>th</sup> and 18<sup>th</sup> century architecture. The town of Laranjeiras is considered the birthplace of Afro-Brazilian traditions.

#### Bahia

The cobbled streets of Salvador, the state capital are lined with palaces and churches and is a UNESCO World Heritage Site. The southern coast has very varied geographical environments including the Mata Atlantica forest. Humpback whales can be seen along the coast.

Fig. 9

For Examiner's Use

(a)	Name the tv	vo lines of latitude shown on	Fig. 8.								
	0°		. 23½°S	[2]							
(b)		ws the climate of Recife. This Identify the <b>three</b> seasons b									
		Months	Season								
		January to April									
		May to August									
		September to December		[2]							
(c)	Bahia. Adve wish to visit  people people  For each type	e important tourist states or trisements for the three state North East Brazil are:  interested in active holidays interested in culture and the pe of tourist, using Fig. 9 only asons for your choice.	es are shown on Fig. 9. Tw ; natural environment.	o types of tourist who							
	State			[2]							
	People interested in culture and the natural environment										
	State										
	Reasons										
	1										
	2			[2]							
				[Total: 8 marks]							

**6** Fig. 10 is a map showing levels of industrialisation and poverty in countries of North Africa and the Arabian Peninsula.

For Examiner's Use

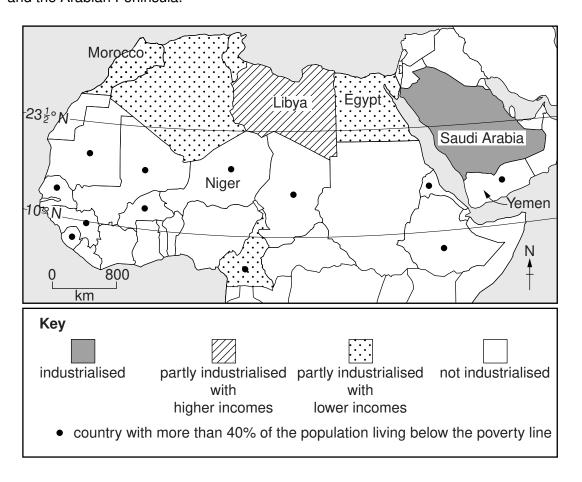


Fig. 10

(i)	Describe the distribution of different levels of industrialisation shown on Fig. 10.
	[2]
(ii)	How does poverty appear to be linked to industrialisation in the countries shown on Fig. 10?
	[1]

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(a)

(b) Fig. 11 shows the employment structure of countries shown on Fig. 10.

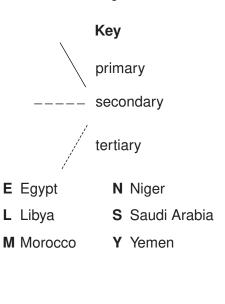


Fig. 11

Using information from Fig. 11, complete the table below.

% primary industry

20

Country	Employment in primary industry (%)	Employment in secondary industry (%)	Employment in tertiary industry (%)
Egypt			49
Yemen	60		

[2]

For Examiner's Use (c) Table 3 shows the percentage of the population employed in secondary industry in four countries which are shown on Fig. 10.

For Examiner's Use

## Table 3

Country	Percentage of the workforce employed in secondary industry	
Niger	4	
Saudi Arabia	21	
Morocco	25	
Libya	50	

as a country becomes more industrialised, employment in the secondary sector acreases and then decreases. Using Table 3 and Fig. 10, give evidence for this.
[3
[Total: 8 marks

Copyright Acknowledgements:

Question 2 Fig. 4 © http://pubs.usgs.gov/of/2004/1043/ofr-2004-1043.pdf.

Question 3 Photograph A © D Kelly (c) UCLES.

Question 3 Photograph B © D Kelly (c) UCLES.

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