

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

	CANDIDATE NAME			
	CENTRE NUMBER		CANDIDATE NUMBER	
*	GEOGRAPHY			0460/23
	Paper 2			May/June 2011
				1 hour 30 minutes
	Candidates answe	er on the Question Paper.		
	Additional Material	ls: Ruler Plain paper		
*	1:50 000 Survey Map Extract is enclosed with this question paper.			
	READ THESE INS	STRUCTIONS 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 Photographs A and B for Question 3. 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.

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



[Turn over



1 The map extract is for Bulawayo, Zimbabwe. The scale is 1:50000.





3





Describe the area under the following headings:

		slope;	
		height of highest point;metres	
		compass direction of flow of the stream[3]	
(c)	Describe the road patterns in:		
	(i)	grid square 6766;	
		[1]	
	(ii)	the north west of grid square 5776.	
		[1]	

(d) Fig. 3 shows an area of cultivation in and around grid square 6480.





How is this area of cultivation irrigated?

(e) In 1980 the city of Bulawayo occupied much of the map area. Using map evidence **only**, suggest reasons for its site and growth.

For Examiner's Use (f) Table 1 shows land uses in Bulawayo. Complete Table 1 to show the main land use in four grid squares. Use **one** tick only for each grid square.

For Examiner's Use

Table	1
IUDIC	

grid square	recreational	high density residential	industrial	low density residential
6173				
6267				
6778				
7070				

[3]

### (g) What feature is at grid reference 675802?

.....[1]

[Total: 20 marks]

#### 2 (a) Fig. 4 shows dispersed, linear and nucleated settlement patterns. For Examiner's В С А Use ••• Key building $\cdot$ . 0 4 km Fig. 4 Using letters A, B and C once only, identify the settlement patterns shown in Fig. 4. dispersed letter .....

linear letter ..... nucleated letter .....

(b) Fig. 5A is a map of a valley in a mountainous area in the northern hemisphere and Fig. 5B (page 7) is a block diagram of the same valley.



Fig. 5A

[2]



(a) Study Photograph A (Insert) showing features of coastal erosion. Describe the features 3 For of coastal erosion seen in Photograph A. Examiner's Use ..... ..... ..... ..... .....[5] (b) How are the features of coastal erosion shown in Photograph B (Insert) different from those in Photograph A? ..... .....[3] [Total: 8 marks]

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(b) Some of the ways in which plants adapt to the tropical desert climate are listed below:

to be able to live in salty soils; to reduce transpiration; to reflect the sun; to store water; to use rainwater before it evaporates;

to use water in the soil most of the year.

Complete Table 2 by choosing **one** reason for each adaptation from the list above. You may use a reason more than once.

## Table 2

Adaptation	Main reason for the adaptation
deep roots	
fleshy stems	
very thin and small thorny leaves	
leaves curl inwards	

[4]

[Total: 8 marks]

For Examiner's Use



Fig. 7

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- (i) Complete the graph to show that the resident population in 2008 was 140000 For (0.14 million). [1] Examiner's Use (ii) How many more tourist visitors were there than residents in 2003? [1] ..... million (iii) Compare the changes in tourist visitors with the changes in resident population between 1970 and 2008. .....[2]
- (b) Fig. 8 gives information about Lanzarote.

Lanzarote is a small island of only 800 square kilometres, which lies off the west coast of Africa near the Sahara Desert. Its barren surface is covered by lava and ash from over 300 volcanic vents. As it has no surface water, forest or mineral wealth, there were few ways of earning a living before 1970. The majority of residents worked in fishing or subsistence farming, using dry farming techniques. By 2009 the island had seen many changes and the government proposed to stop further hotel and apartment construction.

#### Fig. 8

Use Fig. 8 to answer the following questions:

(i) What was the greatest problem facing the developers of mass tourism on the island?

.....[1]

(ii) Suggest three reasons why, in 2009, the government wanted to stop further construction of hotels and apartments.

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

(a) Fig. 9 shows the average size of subsistence farms in a village in the highlands of 6 Lesotho and the average size of commercial farms in Lesotho. Examiner's



Fig. 9

What is the average size of a commercial farm in Lesotho? (i)

..... hectares

[1]

For

Use

How many times larger is the average commercial farm than the average (ii) subsistence farm?

.....[1]



Table	3
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(ii) In which month are most workers needed and which farming process takes place then?

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Question 3 Photographs A & B

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