

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

	CANDIDATE NAME			
	CENTRE NUMBER		CANDIDATE NUMBER	
	GEOGRAPHY		0460/	21
	Paper 2		October/November 20	13
			1 hour 30 minut	es
)	Candidates answer on	the Question Paper.		
	Additional Materials:	Ruler		

Additional Materials: Ruler Protractor Plain paper Calculator

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, B and C for Question 3, and Photograph D for Question 5.

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.

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



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- 1 Study the map extract, which is for Buffalo Range, Zimbabwe. The scale is 1:50000.
 - (a) Fig. 1 shows some of the features in the north west part of the map extract. Study Fig. 1 and the map extract, and answer the questions below.



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Using the map extract, identify the following transport features shown on Fig. 1: (i) feature A;[1] (ii) the type of road at **B**;[1] (iii) features C;[1] (iv) feature D;[1] (v) feature E.[1]



(b) Fig. 2 shows an area in the north east of the map extract.



(d) Fig. 3 shows the location of two hills in the east part of the map extract, Chitsanga Hill

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- (e) Study the area of cultivation which covers much of the south of the map extract.
 - (i) Which **one** of the following statements describes the relief of this area? Tick (✓) **one** correct answer.

StatementTick (✓)steeply slopingcliffsgently slopingridge

[1]

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(ii) How have water supplies been developed in the cultivated area?

[Total: 20 marks]

- 6 Fig. 4 shows the percentage of the population aged 0 – 14 in selected countries from 2000 to For 2010. Examiner's Use Turkey 30 25 ∃lreland 20 weden percentage of German population 15 aged 0 - 1410 5 0-2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 year Fig. 4 In 2005 29% of the population of Turkey was aged 0 – 14. Complete Fig. 4 by (a) (i) adding this information. [1] What percentage of the population of Germany was aged 0 - 14 in 2010? (ii) [1] percent
 - (iii) Describe the general changes in the percentage of the population aged 0–14 between 2000 and 2010, shown on Fig. 4. There is no need to use figures in your answer.

2



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- **3** Photographs A, B and C (Insert) show three urban areas in Africa.
 - (a) Complete the table below by placing a tick (✓) in the **four** correct boxes. Use **one** tick only for each row.

	Photograph A	Photograph B	Photograph C	None of the photographs
high class residential zone				
industrial zone				
CBD				
squatter (informal or shanty) area				
	1	1	1	

(b) Describe the buildings shown in Photograph A.

 [4]

[Total: 8 marks]

4 Fig. 6 shows cross-sections of two types of volcano, Volcano A and Volcano B. Study Fig. 6 and answer the questions on the opposite page.



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(a)	Describe the differences between Volcano A and Volcano B.	For Examiner's
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	[5]	
(b)	Give reasons for the differences that you have described in part (a).	
	[3]	
	[Total: 8 marks]	

Photograph D (Insert) shows a coastal area.	P		
(a) Identify features W, X, Y and Z shown on Photograph D. Choose from:			
beach			
arch			
stack			
wave-cut platform			
cliff			
spit			
plateau			
(i) W			
(ii) X			

- (iii) Y[1]
- (iv) Z[1]

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[1]

[1]

(b)	Explain how feature X was formed.	For
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	[4]	

[Total: 8 marks]

6 Fig. 7 gives information about air pollution in Pennsylvania, an industrialised area of the USA.

The sources of three air pollutants: carbon monoxide, sulfur dioxide and nitrogen oxides are shown.

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- (a) Complete Fig. 7 by adding the following information: 27% of nitrogen oxides came from power stations and 12% came from industry. Use the key provided. [3]
- (b) Table 1 gives information about the effects of each type of air pollution.

Table 1

Pollutant	Effect
Carbon monoxide (CO)	It can reduce the supply of oxygen to the heart, particularly for people suffering from heart disease
Sulfur dioxide (SO ₂)	Causes coughing and irritation of the lungs. It increases the acidity of rain
Nitrogen oxides including nitrogen dioxide (NO ₂)	Cause coughing and irritation of the lungs. They help to form ozone which causes photochemical smog

Using information from Fig. 7 and Table 1, explain why the following people may be in favour of reducing emissions from power stations.

(i) a doctor;

 	[1]

(ii) an environmental pressure group.

(c) The government might propose changing power stations to reduce these harmful emissions. Suggest why other people might oppose these changes.

[Total: 8 marks]

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16

Copyright Acknowledgements:

Question 2 Figs 4 & 5	© adapted: Eurostat; http://epp.eurostat.ec.europa.eu
Question 3 Photograph A	D Kelly © UCLES.
Question 3 Photograph B	D Kelly © UCLES.
Question 3 Photograph C	D Kelly © UCLES.
Question 5 Photograph D	D Kelly © UCLES.
Question 6 Fig. 7	© adapted: United States Environmental Protection Agency; www.epa.gov

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0460/21/O/N/13