

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

	CANDIDATE NAME		
	CENTRE NUMBER	CANE	BER
ω	GEOGRAPHY		0460/21
047	Paper 2		May/June 2010 1 hour 30 minutes
0 0	Candidates answer	on the Question Paper.	
8 3 1 *	Additional Materials	Protractor Plain paper	
	1:50 000 Survey Ma	p 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 IN ANY BARCODES.

Answer all questions.

The Insert contains Photographs A and B for Question 4. 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 15 printed pages, 1 blank page and 1 Insert.



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[Turn over

- Study the map extract, which is for Rusape, Zimbabwe. The scale is 1:50000. 1
 - Examiner's (a) Study the main settlement at Rusape, in the north east of the map extract. A hospital, hotel and an aerodrome are marked on the map. Name five other services or functions found at the settlement.

	1	
	2	
	3	
	4	
	5	[5]
(b)	The	Rusape River flows across the area.
	(i)	Give two pieces of evidence which suggest that the river is flowing from the north east towards the south west.
		1
		2
		[2]

(ii) Measure the average width of the river in grid square 0242. Tick () one correct answer.

	Tick
50m	
100m	
150m	
200m	

[1]

For

Use



(c) Fig. 1 shows the gravel or earth road in the north west of the map extract.

3

[1]

= 1 in



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(f) Find the area of the map extract shown on Fig. 3. Study the distribution of cultivation in this area. Cultivation is shown by brown shading.







The paragraph at the bottom of this page describes the distribution of cultivation in the area.

Complete the paragraph by filling in the missing words. Choose the words from the following list:

away from steep lower highest gentle close to

"About half of the area is under cultivation. Altitude affects the distribution,

with cultivation usually found on the land. Angle of

slope is also important. The areas of cultivation are generally where the slopes

are more Cultivated areas are quite close to

settlements but mostly [3] settlements but mostly

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[Total: 20 marks]

2 Study Fig. 4 below, which shows Instruments **A**, **B** and **C**, which are used to measure the weather.

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- (ii) Instrument B
- (iii) Instrument C

[3]

(b)	On	the diagram for Instrument ${f C}$, use labelled arrows to show:		For
	(i)	mercury;		Examiner's Use
	(ii)	alcohol.	[2]	
(c)	Usi	ng the information shown on Instrument ${f C}$, state:		
	(i)	the present temperature;		
			[1]	
	(ii)	the maximum temperature since the instrument was re-set;		
			[1]	
	(iii)	the minimum temperature since the instrument was re-set.		
			[1]	
			[Total: 8 marks]	

3 Fig. 5 is a student's field sketch of a coastal area with a bay and two headlands. Fig. 6 is a map of the same area.









Fig. 6

(a)	On	Fig. 5, use labelled arrows to show the positions of:	For Examiner's
	(i)	a stack;	Use
	(ii)	a wave-cut platform. [2]	
(b)	(i)	Headland A and Headland B are shown on Fig. 5. Label the positions of Headland A and Headland B on Fig. 6. [1]	
	(ii)	Draw an arrow on Fig. 6 to show the direction in which the student was facing to draw the field sketch. [1]	
(c)	Sta	te two processes by which the sea erodes the cliffs at Headland A .	
	1		
	2	[2]	
(d)		e student's field sketch (Fig. 5) and Fig. 6 show the differences in the shapes of adland A and Headland B . Suggest why the two headlands are different.	
		[2]	

9

[Total: 8 marks]

4	Photographs A and B (Insert), show areas of crop farming in different parts of the world.							
	For each photograph:							
		describe the features of the farming;suggest the type of agricultural system.						
	(a)	Photograph A						
		Description of features of farming						
		Type of agricultural system						
		[4]						

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(b)	Photograph B	For
	Description of features of farming	Examiner's Use
	Type of agricultural system	
	[4]	
	[Total: 8 marks]	

5 Fig. 7 shows the land use of an urban area. It is planned to develop a new shopping centre in the area. Three possible sites **A**, **B** and **C** are shown on Fig. 7.

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Fig. 8 (opposite) shows a planning report giving information about the three sites.



Fig. 7

(a) Using information from Fig. 7, complete the planning report, Fig. 8, below.

Site	Α	В	С
Accessibility for customers	Away from areas of housing. Not on bus routes.		
Accessibility for deliveries/Traffic congestion	·····	On inner ring road. Easy to get to but lorries must go through housing area.	Very easy to get to from bypass. No need for lorries to go through housing area.
Cost of land	Disused industrial land can be bought cheaply.	Land expensive in housing area.	
Air pollution/ carbon emissions of the	Customers travelling by car will lead to more pollution /	Close to housing areas and on bus routes, therefore	
development	carbon emissions.	carbon emissions lower.	
Visual pollution by the development		People living near may find the shopping centre	The shopping centre will have impact on the countryside and
•		ugly to look at.	lead to urban sprawl.

Fig. 8

(b) Suggest two types of out-of-town land use, other than shopping centres, which may be used by urban residents.

[Total: 8 marks]

For Examiner's Use 6 Table 1 shows the approximate number of immigrants to Australia in 10 different years.

Table 1

Year	1988	1990	1992	1994	1996	1998	2000	2002	2004	2006
Number of immigrants (thousands)	155	125	70	45	100	80	110	115	100	135

- (a) On the graph paper below, plot an appropriate graph to show the pattern of changes shown in Table 1.
 - choose appropriate scales
 - · label the axes, showing the units where relevant
 - · plot the points accurately



[6]

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