

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

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		

303510695

GEOGRAPHY 0460/23

Paper 2 October/November 2010

1 hour 30 minutes

Candidates answer on the Question Paper.

Additional Materials: Ruler

Protractor Plain paper

1:25 000 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 IN ANY BARCODES.

Answer all questions.

The Insert contains Photograph A 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.

For Examiner's Use		
Q1		
Q2		
Q3		
Q4		
Q5		
Q6		
Total		

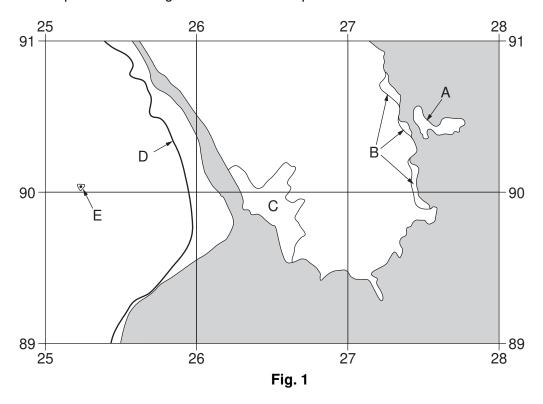
This document consists of 15 printed pages, 1 blank page and 1 Insert.



1 The map extract is for Quatre Soeurs, Mauritius. The scale is 1:25 000.

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(a) Fig. 1 shows the position of some features in the north east of the map extract. Study the map extract and Fig. 1 and answer the questions below.



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

(1)	the name of Island A;	

.....[1]

(ii) the type of vegetation in areas B;

......[1]

(iii) two services at C, Grande Rivière Sud Est;

.....[1]

(iv) the type of road at D;

[1]

(v) the height above sea level of the minor trigonometrical station at E.

.....[1]

(b) Study the Deep River in the west of the map extract.

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Which **three** of the following statements about the Deep River are correct? Tick only **three** statements.

Statement	Tick
The course of the river is meandering	
The width of the river is generally less than 100 metres	
The river is flowing south	
The river has waterfalls	
The river has rapids	
There are no bridges over the river	

[3]

(c) Fig. 2 is a cross section drawn along northing 885 through Mt Chat.

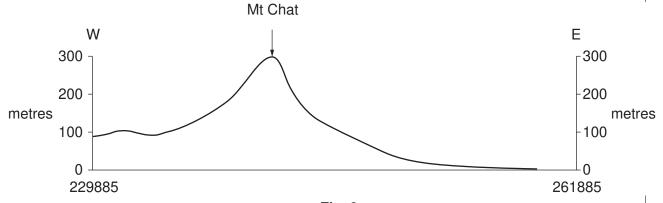


Fig. 2

Using labelled arrows, mark the following features on Fig. 2:

(i) an area of forest; [1]

(ii) the Grand River South East; [1]

(iii) the Marie Jeanne Road. [1]

(d) Fig. 3 shows the area of scrub and scattered trees around Mt Villars.

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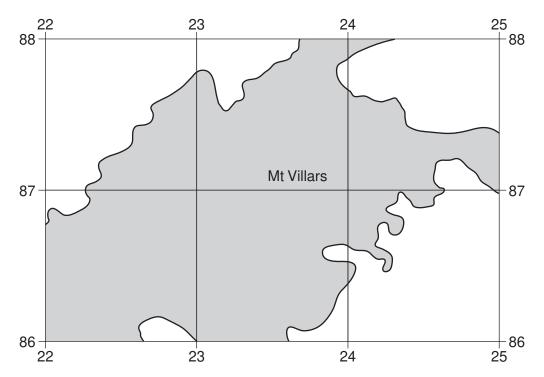


Fig. 3

Describe the relief of the area shaded on Fig. 3.
[4]

(e)	Find	d the settlement of L	a Nourrice in the n	orthern pai	t of the map e	xtract.	,	For Examiner's
	(i)	What is the six figu correct answer belo		or the cross	roads in La N	lourrice? Circle	I .	Use
		251897	224897	22589	7	897225	[1]	
	(ii)	A person walks from at 233887. In which				nd River South	East	
							[1]	
	(iii)	Measure the distar metres.	nce that the perso	n walks ald	ing the road. (	Give your answ	er in	
					metres		[1]	
(f)	(i)	Look at the settler describes these set	•		one of the f	ollowing terms	best	
			Term	Tick				
			nucleated					
			linear					
			dispersed					
					1		[1]	
	(ii)	Suggest <b>one</b> reaso	n why there are fe	w settleme	nts inland, sou	th of the main ri	iver.	
							[1]	
						[Total: 20 ma	arkel	
						[10:01.20 116	ا	

2 Study Fig. 4, which shows the islands of New Zealand, situated in the south Pacific Ocean in the southern hemisphere.

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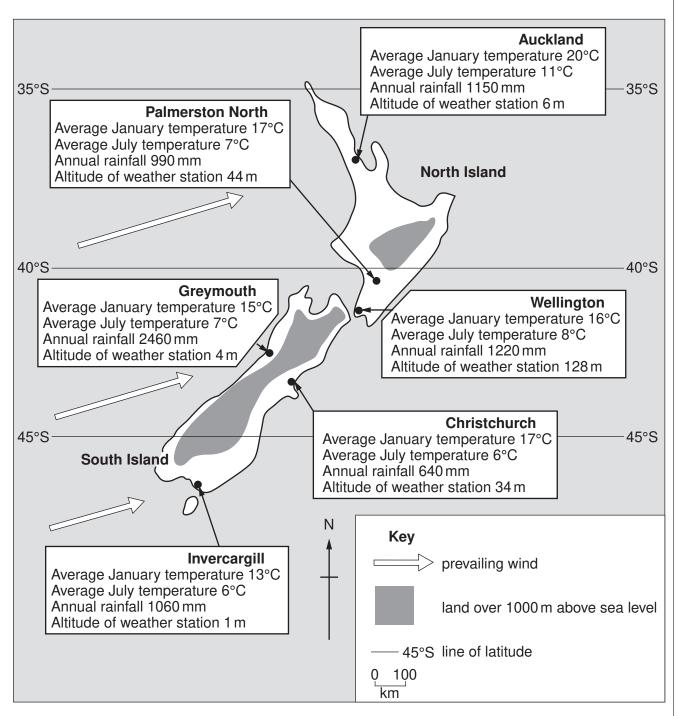


Fig. 4

(a)	Fig.	4 gives information about six places in New Zealand. Which of these places has:	For
	(i)	its weather station highest above sea level;	Examiner's Use
		[1]	
	(ii)	the lowest annual rainfall on the North Island;	
		[1]	
	(iii)	the greatest annual range of temperature?	
		[1]	
(b)		dy the temperatures for Auckland and Invercargill. With the help of Fig. 4, explain the temperatures of the two places are different.	
		[2]	
(c)		dy the rainfall for Greymouth and Christchurch. With the help of Fig. 4, suggest why rainfall of the two places is different.	
	•••••	[3]	
		[Total: 8 marks]	

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**3** Photograph A (Insert) shows a coastal area of Iceland. Fig. 5 is a student's field sketch of the same area.

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Fig. 5

(a)	On Fig. 5, label <b>two</b> coastal features.	2] <sub>  For .</sub>
(b)	Describe, in detail, the features of the coastline shown in the photograph.	Examiner's Use
	[0	6]
	[Total: 8 marks	s]

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4 (a) Figs 6A and 6B show two parts of a river and its valley.

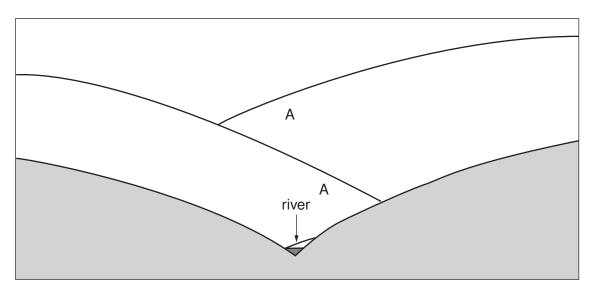


Fig. 6A

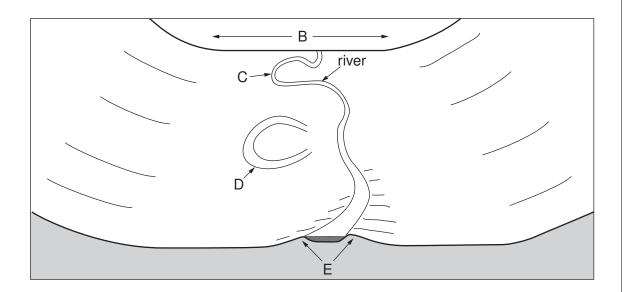


Fig. 6B

Study Figs 6A and 6B and name features A, B, C, D and E.

Feature	A
Feature	B
Feature	C
Feature	D
Feature	E

[5]

**(b)** The long profile of a river is the slope of the river bed from the source of the river to the mouth.

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Fig. 7 shows a map of a river and its valley.

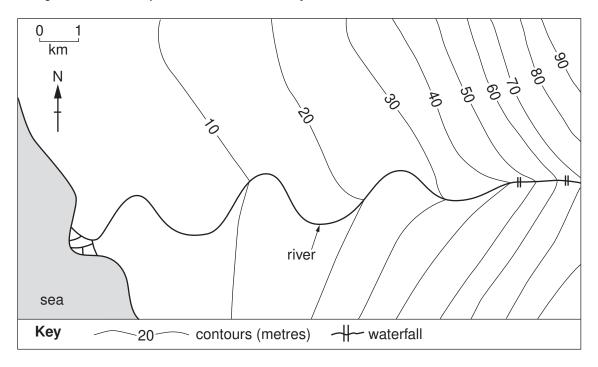


Fig. 7

Describe the long profile of this river.	
	[3]
[Total: 8 mark	ke]

5 Study Fig. 8 and Fig. 9 which show the number of migrants to the United States of America (USA) from four continents. Use the information on Fig. 8 and Fig. 9 to answer the questions on the opposite page.

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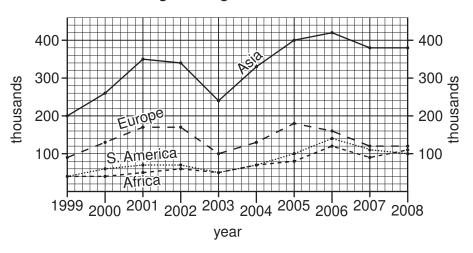


Fig. 8

Origin of migrants to USA

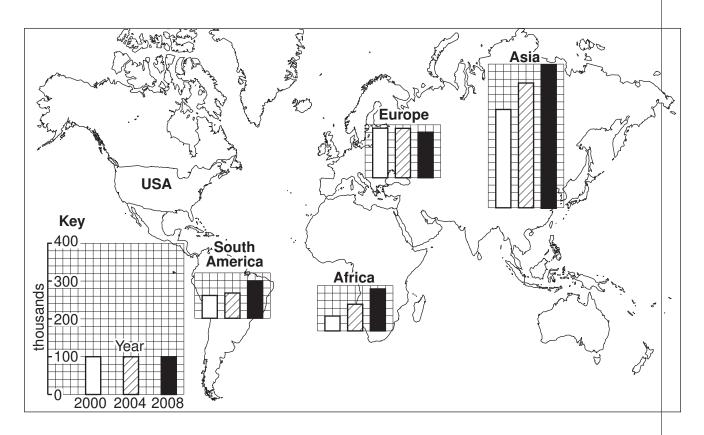


Fig. 9

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(a)	Using Fig. 8, complete the following paragraph.
	Of the four continents, the one with the largest number of migrants to USA
	between 1999 and 2008 was
	number during this period was
	number of people migrated to USA was The number of migrants to
	USA has gradually increased, however there was an unusually low number of migrants
	in the year[4]
(b)	Figs 8 and 9 show similar information in different ways. Give <b>one</b> advantage of each method.
	Advantage of Fig. 8
	[1]
	Advantage of Fig. 9
	[1]
(c)	Figs 8 and 9 provide information about changes affecting the population of USA. Give <b>two</b> other pieces of information that would help you decide whether the total population of USA was increasing or decreasing.
	1
	2
	[2]
	[Total· 8 marks]

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6 Fig. 10 gives information about energy supplies in Swaziland, an LEDC in southern Africa.

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## Local renewable energy in Swaziland

Swaziland imports more than half of its energy requirements. The majority of this is fossil fuels, e.g. coal and oil. Importing energy is bad for the economy. Local energy sources are primarily from biomass (organic matter such as wood and waste from the sugar cane and timber industries). Wood is the only source of energy for 70% of households in rural areas and many households on the edge of urban areas.

Solar and biomass are local, renewable energy sources for private individuals and small industries.

#### Solar

- Equipment is expensive
- Small electricity generating equipment provides power for lighting, radios, black and white TVs but not for high power requirements such as colour TVs or cooking
- Solar hot water systems are an effective way of heating water and can heat large volumes such as swimming pools
- Many parts of Swaziland have a relatively sunny climate

#### **Biomass**

- Collection of firewood is a burden on rural women
- Increasing population and overuse is causing deforestation, lack of fuel and soil erosion
- Uncontrolled open fires cause respiratory illness and accidents in rural areas
- New wood stoves are efficient

Fig. 10

(a)	(i)	What is meant by <i>renewable</i> energy?	For Examiner's
			Use
		[1]	
	(ii)	Using only information from Fig. 10, give <b>one</b> example of a renewable energy source and <b>one</b> example of a non-renewable energy source.	
		renewable source	
		non-renewable source	
(b)		10 gives information about local energy sources in Swaziland. In your own words, cuss the advantages and disadvantages of local solar and biomass energy sources	
	(i)	a subsistence farmer in a rural area;	
		[4]	
	(ii)	a hotel owner.	
		[2]	
		[Total: 8 marks]	

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Copyright Acknowledgements:

 $\hbox{@}$  Map of Quatre Soeurs, Mauritius; Mauritius Government.

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