

Paper 2

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

GEOGRAPHY				04	60/21
CENTRE NUMBER			CANDIDATE NUMBER		
CANDIDATE NAME					

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 Photograph A 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		

May/June 2012 1 hour 30 minutes

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



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

For Examiner's Use

(a) Study the main settlement at Chinhoyi, in the south of the map extract. Name **six** services or functions found at the settlement.

1	
2	
3	
4	
5	
6	[3]

**(b)** Fig. 1 shows the location of three hills, Kanami, Baruka and King Peak, in the south west part of the map extract. Find these hills on the map extract and answer the questions on the opposite page.

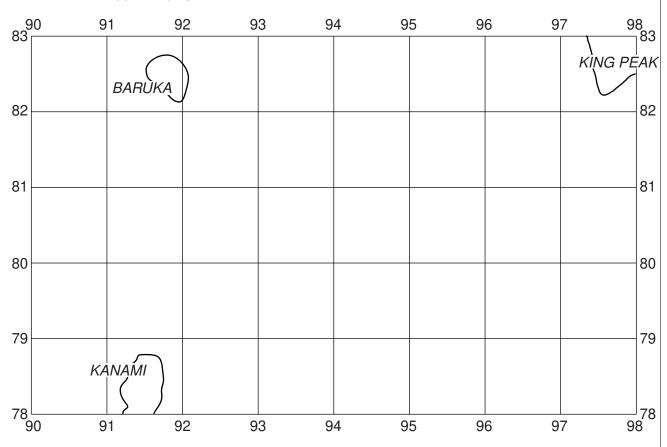


Fig. 1

	What is a		oint) of each hill shown in	
(ii)	What is th		King Peak from Kanami	
				[1]
(iii)	Measure the distance between the summit of Kanami Hill and the summit of Baruka Hill. Give your answer in metres.			
			metres	[1]
(iv)	Give the	six figure grid reference	of the summit of King Pe	ak.
				[1]
(v)	Complete Baruka H		now the height above sea	a level of the summit of
		Hill	Summit height	
		Kanami	1331.8 metres	
		King Peak	1356.2 metres	
		Baruka		
				[1]
Fig	. 2 is a cros	ss section drawn along	northing 84 from 950840	to 020840.
Fig	. 2 is a cros	ss section drawn along Harmor	-	to 020840.
	. 2 is a cros	_	-	to 020840.
)]/	. 2 is a cros	_	-	
) -		_	-	
		Harmor	-	1300
	40	Harmor	ig. 2	1300
5084	00 Fig. 2	Harmor  F  , using labelled arrows, the Hunyani Range;	ig. 2	1300 1200 1100 020840
5084	0n Fig. 2	Harmor  F  , using labelled arrows, the Hunyani Range; a hill slope facing west.	ig. 2	1300 -1200 -1100 020840

metres above sea level (d) Fig. 3 shows the location of two grid squares in the south east part of the map extract. These are grid squares 0380 at Fernlea and 0680 at Hunyani.

For Examiner's Use

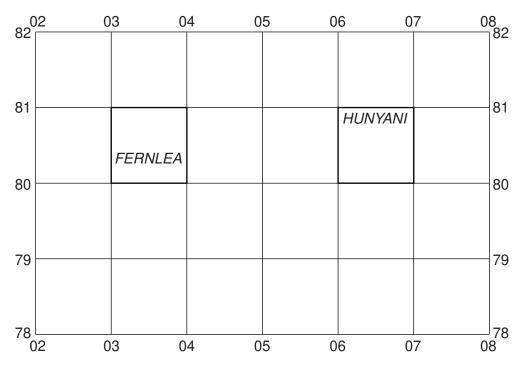


Fig. 3

The table below compares the features of the two grid squares. Complete the table by putting ticks in the correct **five** boxes. Use only **one** tick for each row.

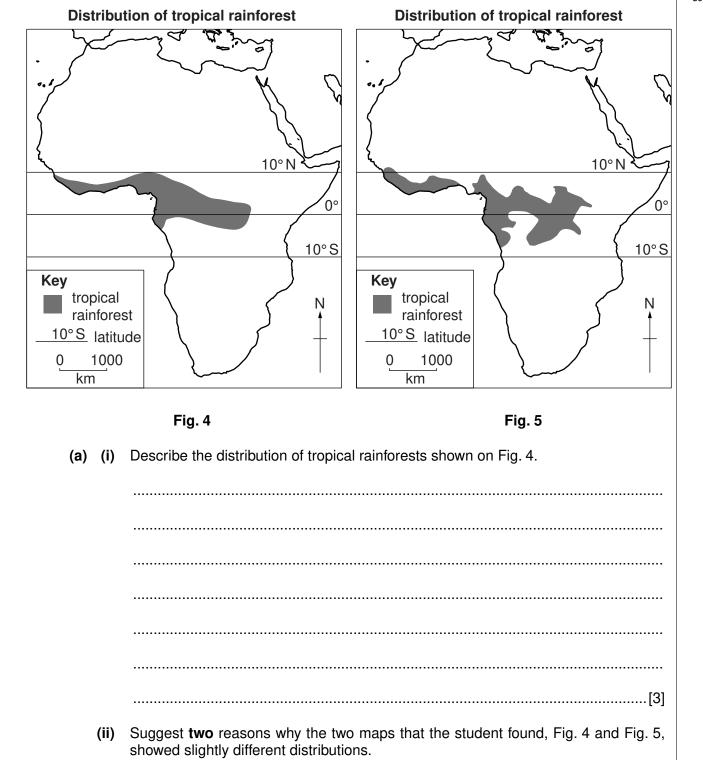
	Fernlea (0380)	Hunyani (0680)	Both of these areas	Neither of these areas
Example: dip tank		1		
railway				
huts and buildings				
power line				
river flowing west				
wide tarred road				

[5]

(e)	Look at the Hunyani River in the east of the map extract. Describe the <b>natural</b> features of the river and its channel. You should <b>not</b> refer to the land on either side of the river.	For Examiner's Use
	[4]	
	[Total: 20 marks]	

[Turn over www.theallpapers.com

2 A student was researching the tropical rainforests of Africa on the internet. She found two maps, Fig. 4 and Fig. 5, which showed the distribution of these rainforests.



	climate:	For Examiner's Use
(i)	rapid growth;	
<b>/**</b> \	[1]	
(ii)	leaves with drip tips;	
	[1]	
(iii)	evergreen forest.	
	[1]	
	[Total: 8 marks]	

Use

Pho	Photograph A (Insert), shows the landscape of an area in Europe.			
(a)	Describe the physical features of the area shown in Photograph A.	E		
	ובו			

For Examiner's Use

3

	9	
(b)	The rocks shown in the photograph have been weathered by freeze-thaw action. Draw a labelled diagram (or diagrams) to explain how this type of weathering happens.	For Examiner's Use
	[3]	
	[Total: 8 marks]	

4 Fig. 6 shows settlements in a rural area.

For Examiner's Use

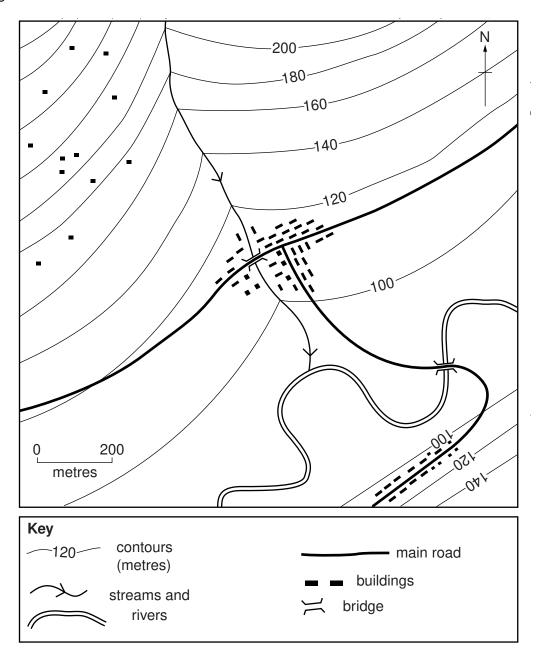


Fig. 6

(a) On Fig. 6, use the letter indicated to mark the position of an area of:

(i) dispersed settlement (D);
(ii) linear settlement (L);
(iii) nucleated settlement (N).

(b)		k at the settlement in the centre of Fig. 6. Explain how the site and position of this lement have been influenced by each of the following factors:
	(i)	transport and accessibility;
		[1]
	(ii)	water supply;
		[41]
	(iii)	relief and drainage.
,	(,	rener and dramage.
		[3]
		[Total: 8 marks]

5 High technology industries use or make products such as silicon chips, software, robots and aerospace components. Fig. 7 gives information about Ottawa, Canada's main high technology centre.

For Examiner's Use

## High technology industries in Ottawa, Canada

High technology industries have developed rapidly in Ottawa in the past 20 years. Ottawa has two universities which are famous for science and engineering and have strong links to the newly developing industries. In addition, the area also has government funded laboratories, such as the Atomic Energy of Canada laboratory. Many of the high technology industries have links to these organisations. Some high technology companies began with help from government grants and rely on government contracts for work. As well as government help, the region has good access to financial institutions which has been vital in providing the start-up costs of many new companies. Ottawa is a very pleasant place to live which helps firms attract highly skilled workers.

Fig. 7

(a) The table below shows some of the factors which can affect the location of industry. Using information from Fig. 7 **only**, which of these **four** factors have been important in the development of high technology industries in Ottawa? Tick only **four** boxes in the table below.

Factor	Tick
raw materials	
energy supplies	
finance	
cheap labour	
unskilled labour	
research facilities	
large flat sites	
water supply	
government influence	
quality of life	

[4]

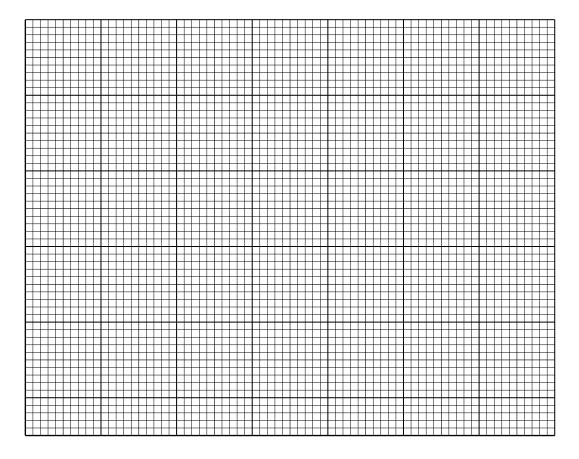
**(b)** The number of high technology companies in the Ottawa area has increased greatly as shown in Table 1 below.

For Examiner's Use

Table 1

Year	Number of companies
1997	900
2002	1400
2007	1800

Using the graph paper below, draw a bar graph to show the information given in Table 1. Choose an appropriate scale and label this clearly. Label the three years.



[4]

[Total: 8 marks]

6 Fig. 8 is a map giving information about water supply in the western USA.

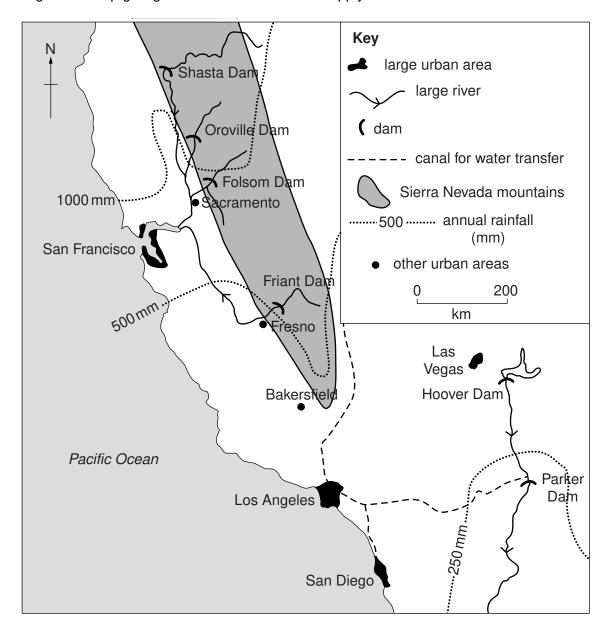


Fig. 8

storage dams have been built. What is the evidence, shown on Fig. 8, for a h demand for water in the area?	
	[1]
(ii) Storage dams have been built because the supply of water was limited. W evidence, shown on Fig. 8, suggests that the area had a limited water supply?	nat

(b)	Fig.	8 shows the locations of some of the storage dams.
	(i)	Suggest <b>two</b> advantages of the locations of these dams.
		1
		2
		[2]
	(ii)	Suggest <b>one</b> disadvantage of the location of the dams.
		[1]
(c)		ne of the urban areas shown on Fig. 8 are supplied with water by canals (artificial nnels) which transfer water to where it is needed.
		ng evidence from Fig. 8, suggest disadvantages of using this method of water supply some of the urban areas.
		[3]
		[Total: 8 marks]

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Copyright Acknowledgements:

Question 3 Photograph A

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