

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

CANDIDATE NAME	
CENTRE NUMBER	CANDIDATE NUMBER



GEOGRAPHY 0460/04

Paper 4 Alternative to Coursework

October/November 2007

1 hour 30 minutes

Candidates answer on the Question Paper.

Additional Materials: Calculator

Ruler

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 the questions.

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	
Total	

This document consists of 11 printed pages and 1 blank page.



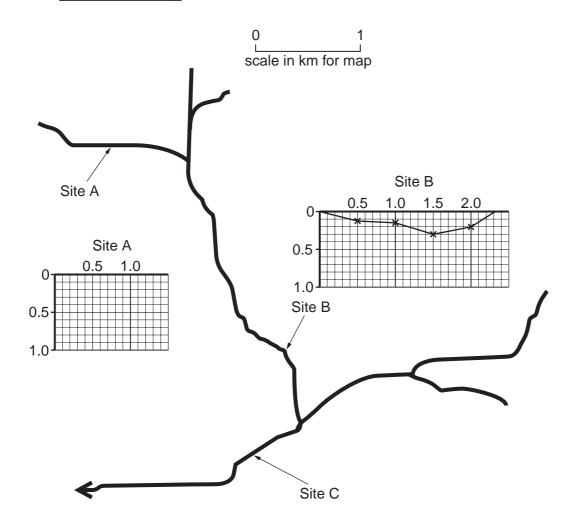
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- 1 Study Fig. 1. Students investigated the changes in the width and depth of a stream at three sites, Site A, Site B and Site C, as distance increased from the source.
 - (a) Complete the hypothesis for this investigation by selecting the correct words from the following: [1]

decrease increase shallower deeper

'The width will _____ and the depth will become

____ as distance from the source increases.'



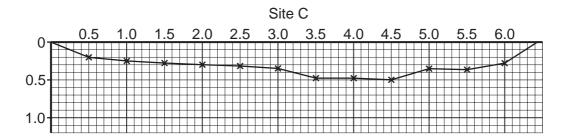


Fig. 1

									3								
(b)	(i	-														-	ipment Fig. 2,
			r your		_	3 1 3				9						,,	- · · · · · · · · · · · · · · · · · · ·
								Fig	. 2								[2]
								Fig	j. 2								[3]
								Tab	le 1								
F			Dep	th in r	netres	at d	istano	ces fr	om le	eft ba	nk	I	I	ı	-		
		_													(m)		
		Widt													d eter	arge ec)	
	Site	Total Width	0.5m	.0m	.5m	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	Wetted perimeter (m	Dischal m³/seα	
- ⊢	A		0.15	0.10		- (4	- (1	(1)	()	7	1	47	47		1.50	0.01	
_ -	В	2.31	_	0.15			_		2.42						2.50		
Ľ	<u> </u>	6.42	0.20	0.25	0.28	0.30	0.32	0.35	0.48	0.48	0.50	0.35	0.36	0.28		1.25	l
	(ii															stem	atically
		•	very ½		•												
			raw a formati					on	Fig. 1	, to s	show	the o	depth	of t	he str	eam,	using [3]
(c)	(i) T	ne wet	ted p	erime	ter is	s the	amo	unt c	of ba	nk ar	nd be	d wh	nich t	he st	ream	water
		to	uches.														
			se Fig nswer i			ılate	the le	ength	of th	ne w	etted	perir	neter	at S	ite C.	Writ	e your [2]
	(ii) E	xplain l	how th	ne we	tted p	erim	eter o	can cl	nange	e the	spee	d of t	he riv	er.		

.....[2]

				4			
(d)	(i)		d travelling of	over a distance	of 10 metres.	. The recordir	site. A floating ag sheet for Site on the recording
		Location		Sit	e B]
		Location		011			_
							_
							-
		Time	in seconds	of floating obje	ct over 10 me	etres	_
		18.0	16.8	15.4	18.5	13.3	
				Fig. 3			[2]
	(ii)	State a reason five times.	why the tim	ing of the floa	ting object ov	er 10 metre	s was repeated
		Passan					
		Reason		•••••			
							[1]
'	(iii)	below. Underlin	cross-section	nal area most a er.		r Site B from	the possibilities [1]
(e)		dy Table 1 and F nge from Site A					
	Wid	th					
	****	u i					
	Dep	oth					
	•••••			•••••	•••••	••••••	
	Disc	charge					
		9 -					

(†)	in 4	stream was measured again at the same sites after a storm, when 60 mm of rain fell 8 hours. Describe how this storm would change the discharge and the processes of stream.
	Dis	charge change
	Pro	cesses change
	••••	rol
(g)	(i)	Describe in detail how the investigation could be improved. Suggest reasons for these improvements.
		[4]
	(ii)	Write a brief conclusion to this investigation.
		[2]

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2 Students at an international school in Spain investigated migration and population increase in a coastal tourist town. The teacher suggested that the main reason for the population increase was the growth in worldwide tourism in the past 40 years.

101	ouoo	1145 1110	growth in worldwide tourism in the pas	. 10 you.o.	
(a)	Sug yea	_	ee reasons why there has been a growth	n in worldwide tou	urism in the past 40
	Reason 1				
	Rea	son 2			
	Rea	son 3			
					[3]
The	stuc	lents wro	te a short questionnaire to investigate t	he hypothesis	
					- Consint
	'pe	eopie wh	o moved to the tourist town came from	countries close to	o Spain'.
	-	stionnair Fig. 4.	es were given to 100 parents at a sch	nool event. Study	the questionnaire
		Questic	onnaire to investigate migration		
		Q1	Were you born in this coastal town?	YES	
				NO	
		00	Llow long hove you lived hove?	Lindor 40 vra	
		Q2	How long have you lived here?	Under 10 yrs.	
				10 – 19 yrs.	
				20 – 29 yrs.	
				30 – 39 yrs.	
				40 – 49 yrs.	
				Over 50 yrs.	
		Q3	In which country were you born?		
		QU	in which codinly word you boin.		
			Fig. 4		
(b)	(i)	Why wa	s it important to ask Question 1 (shown	in Fig. 4)?	

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(ii)	State one advantage and one disadvantage of the method of using parents as	г
	source of data.	

Advantage	
Disadvantage	
	[2]

Table 2

Q1. Were you born in this coastal town?	Yes = 69%		No = 31%				
Q2. How long have you lived			Born in co	astal town		Not born in coastal town	
here?	Und	er 10 yrs		0	1	3	
	1	0–19 yrs		0	1	10	
	20–29 yrs 30–39 yrs			6	4		
			1	9		4	
	4	0–49 yrs	3	3	0		
	Over 50 yrs		11		0		
Q3. In which	USA	2	Norway	1	UK	6	
country were you born?	Brazil	2	Netherlands	2	Thailand	1	
	Italy	2	France	1	Germany	2	
	Austria	1	Tunisia	4	India	3	
	Spain	4		•			

(c) (i) Table 2 shows the results of the questionnaire.

Using the results of Question 2 in Table 2, complete the bar graph, Fig. 5. Use the key and write a title to the graph.

Title

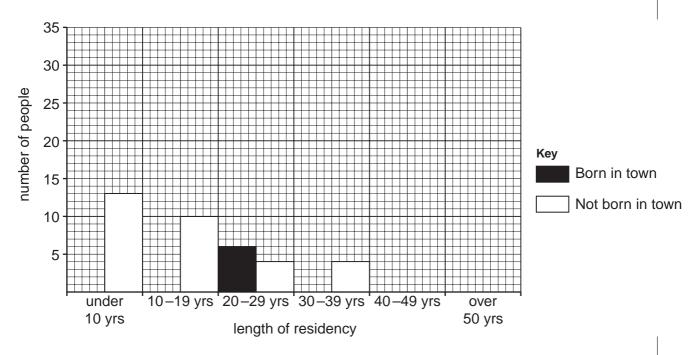
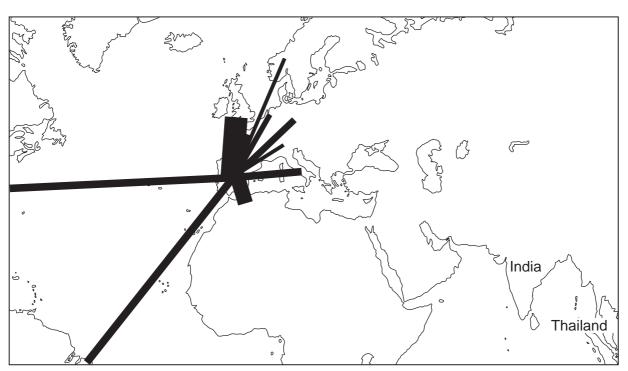


Fig. 5 [4]

(11)	Describe the pattern shown by the data.

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Scale: 1 mm = 1 person

Fig. 6

(d) (i) Study Fig. 6, which shows responses to Question 3 on the questionnaire.

Add the flow lines for India and Thailand using the data in Table 2. [2]

Table 3

Europe	19
North America	2
South America	2
Asia	4
Africa	4

Study Table 3, which shows which continent the migrants came from. Suggest why so many of the migrants came from European countries.				
[3]				

(iii)	Write a conclusion to this investigation.
	Is the hypothesis correct?
	Give reasons for your answer. Support your reasons by stating data.
	Suggest how the investigation could be improved.

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(e) The students decided to find out more about why people move to the coastal tourist town. They found information about the town on the internet. This information is shown on Fig. 7.

45 years ago this coastal town was a small fishing and market town. It had very few shops and just one hotel. Restaurants, bars and hotels were rapidly built from 1960 onwards. This provided many employment opportunities and an international airport opened in 1965. The roads were improved to cope with the increase in visitors, who wanted to enjoy the warm climate and local culture.

Fig. 7

(i)	The internet information is secondary data. What is secondary data? State two other examples of secondary data.		
		[2]	
(ii)) On Fig. 7 underline the pull factors of people moving to live in this tourist town. [2]		
(iii)	The students decided to write an additional question to investigate the different reasons why people moved to live in the town.		
	On Fig. 8 write a suitable question in the style of Question 2 (Fig. 4), as part of that questionnaire.		

Fig. 8 [3]

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