

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS General Certificate of Education Ordinary Level

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		



GEOGRAPHY 2217/02

Paper 2 October/November 2007

2 hours 15 minutes

Candidates answer on the Question Paper.

Additional Materials: Calculator

Ruler

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 IN ANY BARCODES.

Section A

Answer all questions.

Section B

Answer one question.

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 Exam	iner's Use
Q1	
Q2	
Q3	
Q4	
Q5	
Section B	
Total	

This document consists of 22 printed pages, 2 blank pages and 1 Insert.





[Turn over

Section A

Answer all questions in this section.

St	tudy the map extract of part of eastern Jamaica, which is at a scale of 1:50 000.	
(a	Describe the land-use and relief in each of the following squares:	
	(i) 2942	
		[2]
	(ii) 2247	
		[2]
(b	b) What is the feature found at 222463?	[1]
(с	Give the six figure grid reference for the bridge where the main road crosses the Garden River, near the centre of the map extract.	e Plantain
		[1]
(d	find the hospital at Duckenfield at 278407.	
	(i) How far is it by road to the nearest point on the coast?	[1]
	(ii) What direction is this point on the coast from the hospital?	[1]
(e	e) Describe the distribution of settlement to the north of the Plantain Garden Rive	er.

1

	from Booby South Point at 312471 as far as 330426.
	[4]
(g)	Compare the A road route and the C road route from Happy Grove (2750) to the crossroads at 274444.

2 Study Fig. 1, showing Karachi, a city in Pakistan and Photographs A and B (Insert), showing Mohammad Nagar, a part of Karachi.

General land-use zones in Karachi

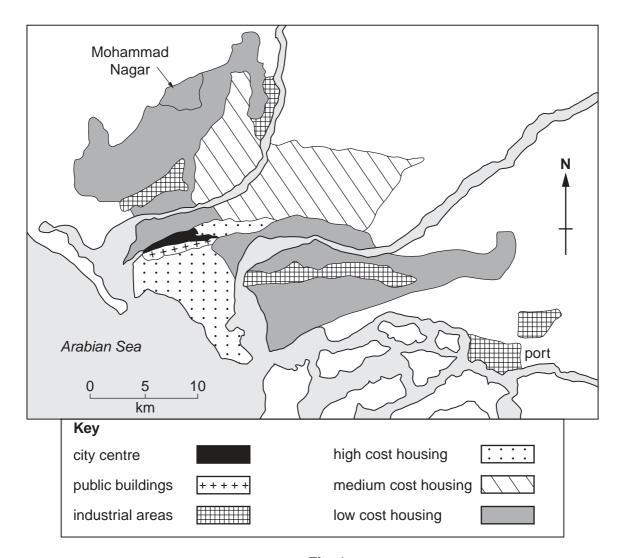


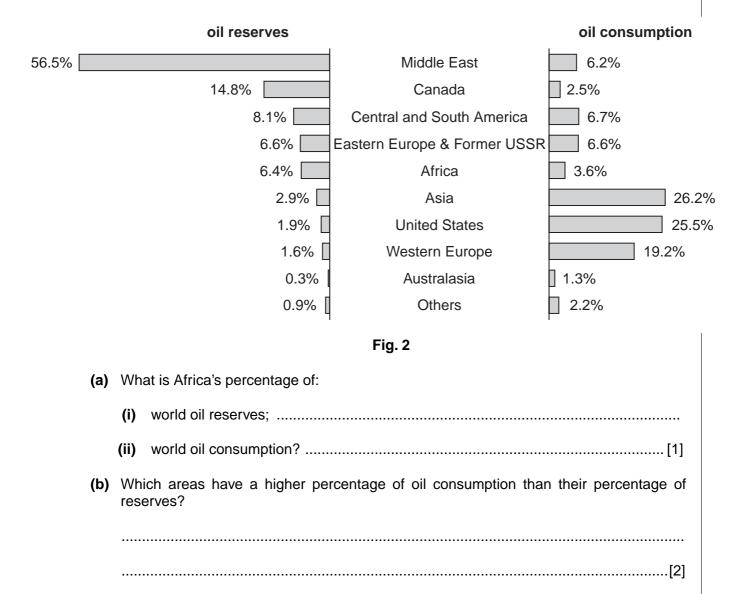
Fig. 1

(a)	Des	scribe the location within Karachi of:
	(i)	areas of high cost housing;
		[2]
	(ii)	areas of low cost housing.
		[2]

(b)	Photographs A and B (Insert) were taken in the Mohammad Nagar area of Karachi shown on Fig. 1.
	Describe the location of this area.
	[2]
(c)	Using both Fig. 1 and Photographs A and B (Insert), describe the advantages and disadvantages of living in Mohammad Nagar.
	Advantages
	Disadvantages
	[4]

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3 Study Fig. 2, which shows world oil reserves and world oil consumption.



(c) Fig. 3A shows the route of an oil pipeline from Chad to Cameroon in Africa. Fig. 3B shows statements about this pipeline project from a variety of organisations.

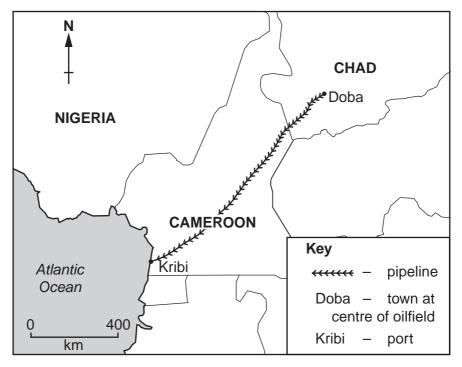


Fig. 3A

The Chad Cameroon Pipeline Project

Update

By the end of 2005 Chad had earned US\$306 million from the export of its oil. The project employed over 4000 people, 80% of whom were nationals.

Chad – Poorest of the poor

Chad is one of the poorest countries in the world. Much of it is desert. Oil was discovered in the mid 90s and the World Bank was asked to support the construction of a 1100 km pipeline to the coast.

Cameroon

Cameroon has more fertile land and a better climate than Chad but over 20% of its people live on less than US\$1 a day. It was hoped that the pipeline would create jobs for the local people and that taxes on the oil would be used to improve the infrastructure.

Jobs?

Most of the jobs created were unskilled and temporary. The better paid jobs went to workers from the cities.

Local people?

Springs were destroyed in some local villages, leading to a loss of drinking water. Health problems and food shortages were linked to the project.

Poverty?

Some people fear that the income from the project will not reach the poorest and that much will be lost through corruption and incompetence.

Economy?

The estimated profits are US\$8 billion. Cameroon will receive 7%, Chad 22% and the oil companies 71%.

Fig. 3B

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(i)	In what direction is the nearest point on the coast from the Chad oilfields?
	[1]
(ii)	Describe three benefits and three problems that the pipeline could bring to the two countries.
	Benefits
	1
	2
	3
	[3]
	Problems
	1
	2
	3
	[3]

4 Study Fig. 4A, a climate graph for Kano, and Fig. 4B, a map giving wind directions. Kano is a town in Nigeria, in the Sahel region of Africa.

KanoTemperature range 14°C
Total precipitation 920mm

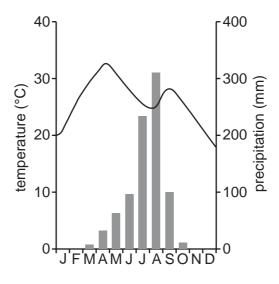
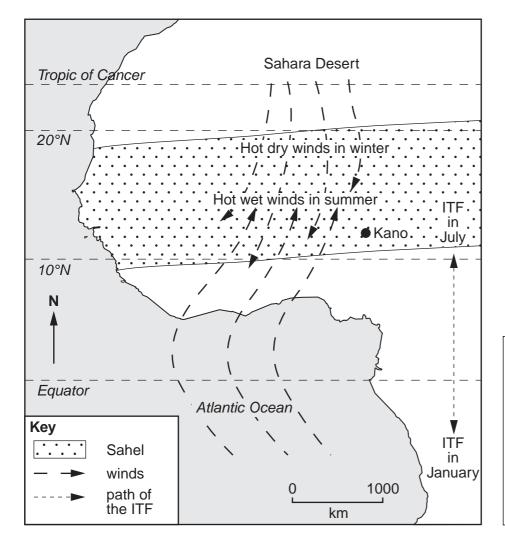


Fig. 4A



ITF – the Inter Tropical Front

This is where the moist air from the south meets the dry air from the north. Its position is affected by the movement of the earth in relation to the sun.

Fig. 4B

(a)		ich five months make up Kano's rainy season?	
(b)		w much rain falls in Kano in August?	[1]
			[1]
(c)	Hov	w far is Kano from the nearest point on the coast?	
(d)		ng the information on the map, suggest why Kano is hot and dry for part of the y	[1] ear.
(e)	Wha	at weather changes cause the rainy season to arrive?	[2]
			[2]
(f)	The	e Sahel region suffers from unreliable rainfall.	
	(i)	Using evidence from the map, suggest what could cause this unreliability.	
	(ii)	State two possible effects of the rains not arriving in the Sahel.	
		1	
		2	
			[2]

5 Study the information in Figs 5 and 6 about tourism in Kenya.

Extracts from an advertisement for a holiday in Kenya

Day 1 Nairobi/Samburu (310 km)

After breakfast drive north, cross the Equator and pass Mt Kenya, to Samburu Lodge. After lunch there will be a game drive when you should see elephant, buffalo, lion, giraffe, zebra, crocodile and many bird species.

Day 2 Samburu

Early morning game drive. Relax at midday around the swimming pool or watch the Samburu perform traditional dances. Late afternoon game drive.

Day 3 Samburu/Treetops (200 km)

Drive south for lunch at the Outspan Hotel. A short journey takes you into the Aberdare Mountains where you will spend the night at Treetops, the world-famous tree hotel. As evening approaches, buffalo, elephant and rhino join other animals at the waterhole.

Day 7 Maasai Mara/Nairobi (260 km)

Early morning departure, arriving at Nairobi for lunch. Afternoon flight to Mombasa to continue your holiday at a beach hotel.

Fig. 5

Map of Kenya showing some of the tourist attractions

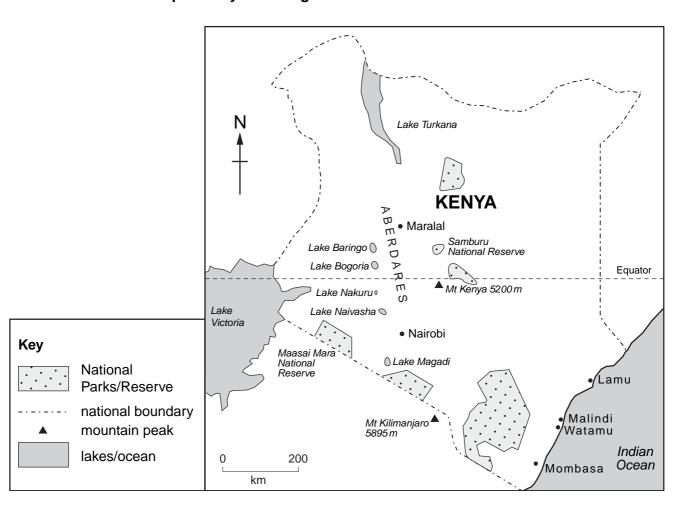


Fig. 6

(a)	(i)	State four different types of attraction that Kenya can offer to tourists.
		1
		2
		3
		4
		
		[4]
	(ii)	For one of these types, give two reasons why it attracts tourists.
		Type of attraction chosen
		1
		2
		[2]
(h)	Suc	ggest two ways in which tourism could benefit people in Kenya.
(~)		
	1	
	2	
		[2]
(c)	Sug	ggest two problems that could be caused by people relying on tourism for income.
	1	
	2	
		[2]

Section B

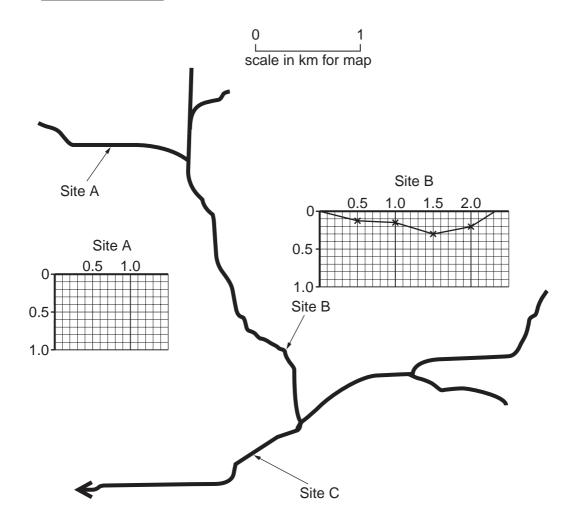
Answer one question in this section.

- **6** Study Fig. 7. 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'



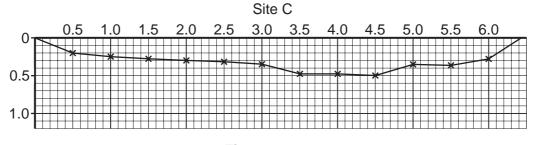


Fig. 7 2217/02/O/N/07

https://xtremepape.rs/

								1;)								
(b)	(i)	includ	did the ded tw our ans	o ran													
								Fig	. 8								[3]
								Tabl	e 1								
			Dep	th in r	netres	at d	istan	ces fr	om le	ft ba	nk						
	Site	Total Width (m)	0.5m	1.0m	1.5m	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	Wetted perimeter (m)	Discharge (m³/sec)	
	Α	1.40	0.15	0.40											1.50	0.01	
	В	2.31	0.12	0.15	0.30	0.20									2.50	0.09	
	С	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	
	(ii)		ich sit y ½ me												-	matic	ally
			a line				А оі	n Fig	. 7, to	sho	w the	e dep	oth of	the	strea	m, us	sing [3]
(c)	(i)	The touch		d peri	meter	is th	ne ar	noun	t of b	oank	and	bed '	which	the	strea	am w	ater
			Fig. 7 er in T			e the	leng	jth of	the	wette	ed pe	rimet	er at	Site	C. W	/rite y	our [2]
	(ii)	Expla	in hov	w the	wette	d peri	mete	r can	char	nge th	ne spe	eed o	f the	river.			

.....[2]

		sheet.					
		Location					
		Time i	n seconds o	of floating obje	ct over 10 m	etres	
		18.0	16.8	15.4	18.5	13.3	
				Fig. 9			[2]
	(ii)	State a reason five times.	why the tir	ning of the floa	ating object	over 10 metre	es was repeated
		Reason					
							[1]
((iii)		cross-sectio	nal area most			again at Fig. 7 the possibilities [1]
		3.29	9 m²	$0.32{\rm m}^2$	0.0	9 m²	
	Wid						
					•••••		
					•••••		
	Disc	charge					
							[6]

(f)	fell	e stream was measured again at the same sites after a storm, when 60 mm of rain in 48 hours. Describe how this storm would change the discharge and the processes he stream.								
	Disc	charge change								
	Pro	cesses change								
		rea								
, ,										
(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]								

		16			
Students at an international school in Spain investigated migration and population increase in a coastal tourist town. The teacher suggested the main reason for the population increase was the growth in worldwide tourism in the past 40 years.					
(a)	Suggest th years.	ree reasons why there has been a growtl	n in worldwide touris	sm in the past 40	
	Reason 1.				
	Reason 2.				
	Reason 3.				
				[3]	
The	e students wi	rote a short questionnaire to investigate t	he hypothesis		
	'people и	ho moved to the tourist town came from	countries close to 3	Spain'	
The	e questionna	ires were given to 100 parents at a sch	nool event. Studv tl	he questionnaire	
	own in Fig. 10		,	1	
	Quest	ionnaire to investigate migration			
	Q1	Were you born in this coastal town?	YES		
			NO		
	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?			
		Fig. 10			
(b)	(i) Why w	as it important to ask Question 1 (shown	ı in Fig. 10)?		

(ii) State one advantage and one disadvantage of the method of using parents as a

Source or data.
Advantage
Disadvantage
[0]

Table 2

Q1. Were you born in this coastal town?	Yes =	: 69%		No = 3	%		
Q2. How long have you lived			Born in coastal town			Not born in coastal town	
here?	Under 10 yrs		0		13		
	10–19 yrs		0		10		
	20–29 yrs		6		4		
	30–39 yrs		19		4		
	40–49 yrs		33		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. 11. Use the key and write a title to the graph.

Title

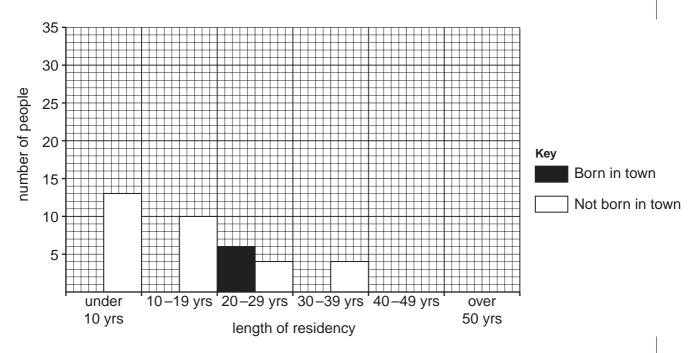
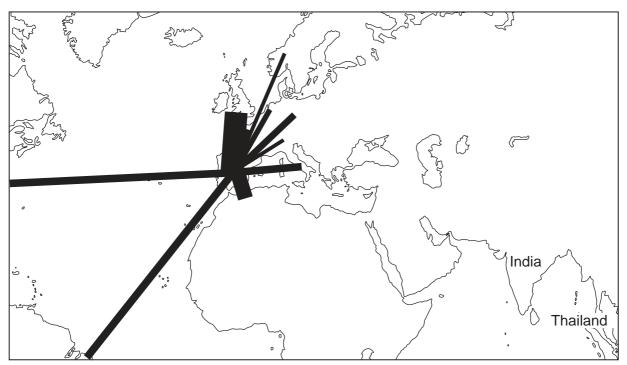


Fig. 11 [4]

Describe the pattern shown by the data.	11.
	••••
	[3]

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(ii)



Scale: 1 mm = 1 person

Fig. 12

(d) (i) Study Fig. 12, 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 w 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.
	[6]

(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. 13.

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. 13

(i)	The internet information is secondary data. What is secondary data? State two other examples of secondary data.		
		[2]	
(ii)	On Fig. 13 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. 14 write a suitable question in the style of Question 2 (Fig. 10), as part of that questionnaire.		

Fig. 14 [3]

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