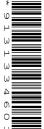


# UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS General Certificate of Education Ordinary Level

CANDIDATE NAME					
CENTRE NUMBER			NDIDATE IMBER		



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	For Examiner's Use		
Q1			
Q2			
Q3			
Q4			
Q5			
Section B			
Total			

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



## **Section A**

## Answer all questions in this section.

1

Stu	dy th	e map extract of part of eastern Jamaica, which is at a scale of 1:50 000.
(a)	Des	scribe the land-use and relief in each of the following squares:
	(i)	2942
		[2]
	(ii)	2247
		[2]
(b)	Wh	at is the feature found at 222463?[1]
(c)		e the six figure grid reference for the bridge where the main road crosses the Plantain den River, near the centre of the map extract.
		[1]
(d)	Fin	d 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)	Des	scribe the distribution of settlement to the north of the Plantain Garden River.
		[6]

(†)	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.
	[3]

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

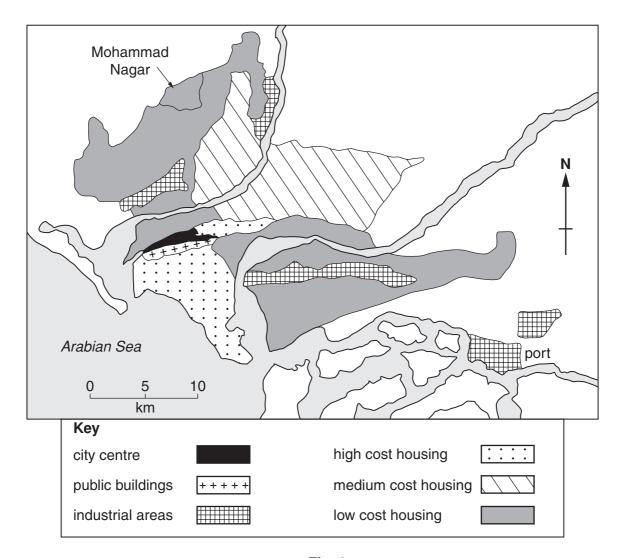


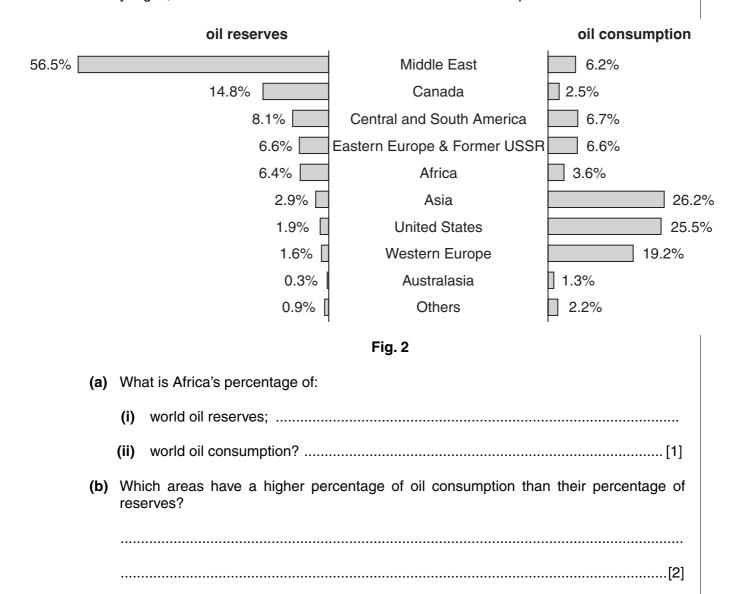
Fig. 1

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

(b)	Shown on Fig. 1.
	Describe the location of this area.
	[2]
(c)	Using <b>both</b> Fig. 1 <b>and</b> 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.

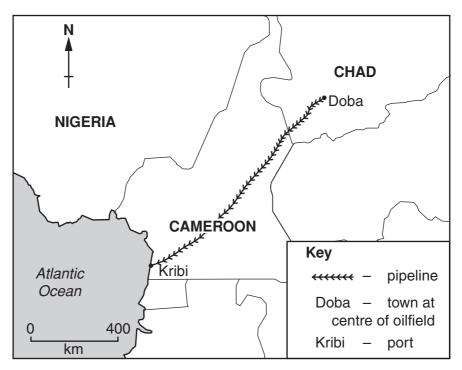


Fig. 3A

# 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%.

(i)	In what direction is the nearest point on the coast from the Chad oilfields?
	[1]
(ii)	Describe <b>three</b> benefits and <b>three</b> 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.

**Kano**Temperature range 14°C
Total precipitation 920mm

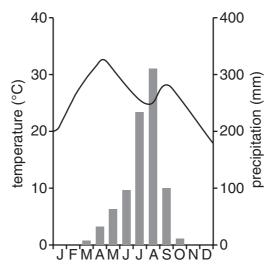
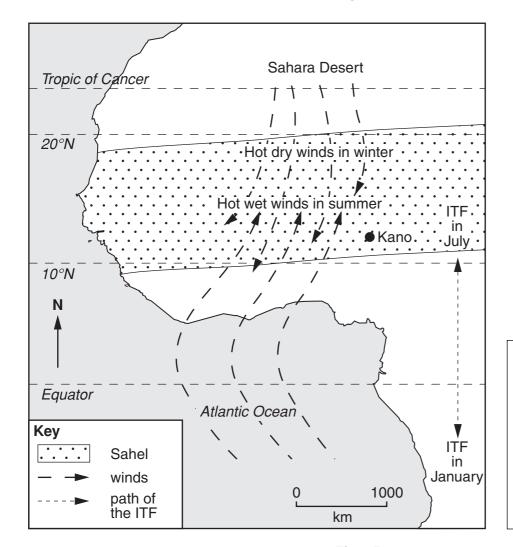


Fig. 4A



# 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

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(a)		ch five months make up Kano's rainy season?
(b)		v much rain falls in Kano in August?
		[1]
(c)	Hov	v far is Kano from the nearest point on the coast?
		[1]
(d)	Usiı	ng the information on the map, suggest why Kano is hot and dry for part of the year.
	•••••	
		[2]
(e)	Wha	at weather changes cause the rainy season to arrive?
(-)		
		[2]
(f)	The	Sahel region suffers from unreliable rainfall.
	(i)	Using evidence from the map, suggest what could cause this unreliability.
		[1]
	(ii)	State <b>two</b> 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)

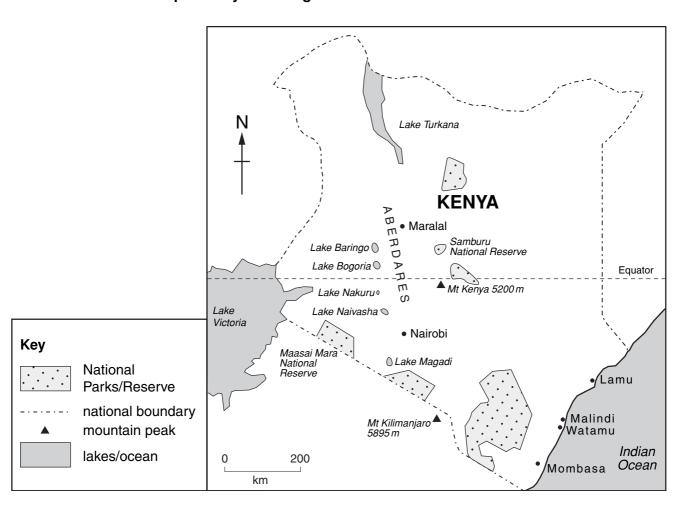
Drive south for lunch at the Outspan Hotel. A short journey takes you into the Aberdare Mountains where you will spend the night at Treetops, the world-famous tree hotel. As evening approaches, buffalo, elephant and rhino join other animals at the waterhole.

#### 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** 2217/02/O/N/07

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

#### **Section B**

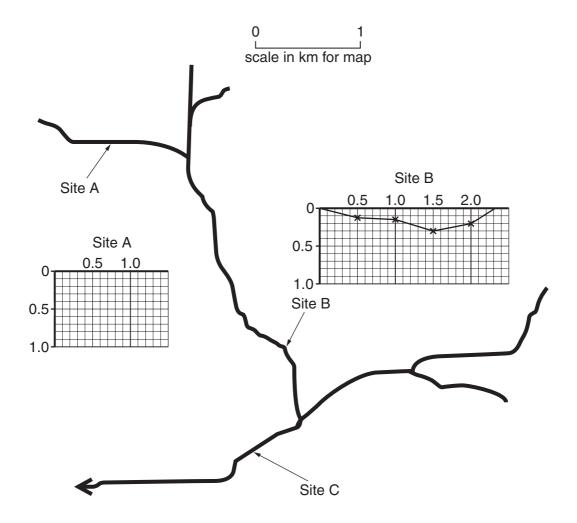
#### Answer one question in this section.

- **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'



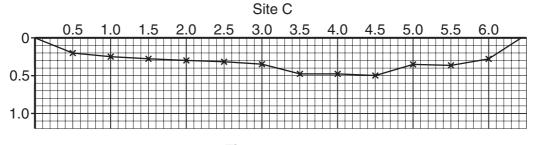


Fig. 7

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(b)	(i)	includ		o ran												quipm m, Fiç	
								Fig	. 8								[3]
								Tabl	e 1								
			Dep	th in n	netres	at d	istan	ces fr	om le	ft baı	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	0.10											1.50	0.01	
	В	2.31		0.15					2.40	0.40					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	<u> </u>	1.25	
	(ii)	At ea (ever		e, the etre). T												matic	ally
				e grap from			А оі	n Fig	. 7, to	sho	w the	e dep	oth of	the	strea	ım, us	sing [3]
(c)	(i)	The v		d peri	meter	is th	ne ar	noun	t of b	oank	and	bed	which	the	strea	am wa	ater
				to ca able 1		e the	leng	jth of	the	wette	ed pe	rimet	er at	Site	C. W	/rite y	our [2]
	(ii)	Expla	in hov	v the	wette	d peri	mete	r can	char	nge th	ne spe	eed o	f the	river.			

(d)	(i)	object was time	ed travelling of	over a distance	of 10 metre	s. The recording	site. A floating ng sheet for Site on the recording
		Location		Sit	е В		
		Time i	in seconds o	f floating object	ct over 10 m	etres	
		18.0	16.8	15.4	18.5	13.3	
		10.10	1010	Fig. 9	.0.0	.0.0	[2]
		_		_			
	(ii)	State a reason five times.	why the tim	ning of the floa	ating object	over 10 metre	s was repeated
		Reason					
							[1]
	(iii)		cross-sectio	nal area most a			again at Fig. 7 the possibilities [1]
		3.29	9 m²	$0.32  \text{m}^2$	0.0	9 m²	
(e)		nge from Site A					cs of the stream criptions.
	Dep	ינו					
					•••••		
	Disc	charge					
							[6]

(f)	fell i	The stream was measured again at the same sites after a storm, when 60 mm of rain fell in 48 hours. Describe how this storm would change the discharge and the processes of the stream.								
	Disc	charge change								
	Pro	cesses change								
		[3]								
(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]								

(a)	Suggest <b>th</b> i years.	ree reasons why there has been a growt	h in worldwide tou	urism in the pa
	Reason 1			
	Reason 2			
The	students wr	ote a short questionnaire to investigate	the hypothesis	
	'people w	tho moved to the tourist town came from	countries close t	to Spain'
	F F -			- 7
The	questionna	ires were given to 100 parents at a sc	hool event. Study	the question
	questionna wn in Fig. 10	ires were given to 100 parents at a sc	hool event. Study	the question
	-	- · · · · · · · · · · · · · · · · · · ·	hool event. Study	the question
	wn in Fig. 10	).	hool event. Study	the question
	wn in Fig. 10	- · · · · · · · · · · · · · · · · · · ·	hool event. Study	the question
	wn in Fig. 10	).	hool event. Study	the question
	wn in Fig. 10	ionnaire to investigate migration	·	the question
	wn in Fig. 10	ionnaire to investigate migration	YES	y the question
	Quest	ionnaire to investigate migration  Were you born in this coastal town?	YES NO	the question
	Quest	ionnaire to investigate migration  Were you born in this coastal town?	YES NO Under 10 yrs.	y the question
	Quest	ionnaire to investigate migration  Were you born in this coastal town?	YES NO Under 10 yrs. 10 – 19 yrs	y the question
	Quest	ionnaire to investigate migration  Were you born in this coastal town?	YES NO Under 10 yrs. 10 – 19 yrs 20 – 29 yrs.	y the question
	Quest	ionnaire to investigate migration  Were you born in this coastal town?	YES NO Under 10 yrs. 10 – 19 yrs 20 – 29 yrs. 30 – 39 yrs.	y the question
	Quest	ionnaire to investigate migration  Were you born in this coastal town?	YES NO Under 10 yrs. 10 – 19 yrs 20 – 29 yrs. 30 – 39 yrs. 40 – 49 yrs.	y the question

.....[1]

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

source of data.
Advantage
Disadvantage

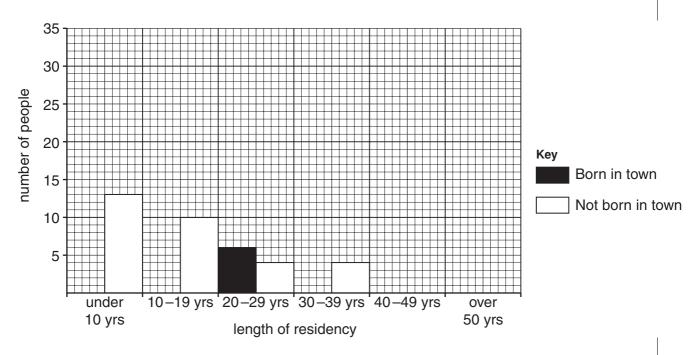
Table 2

Q1. Were you born in this coastal town?	Yes = 69%		No = 31%				
Q2. How long have you lived			Born in co	pastal 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		1	9		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.

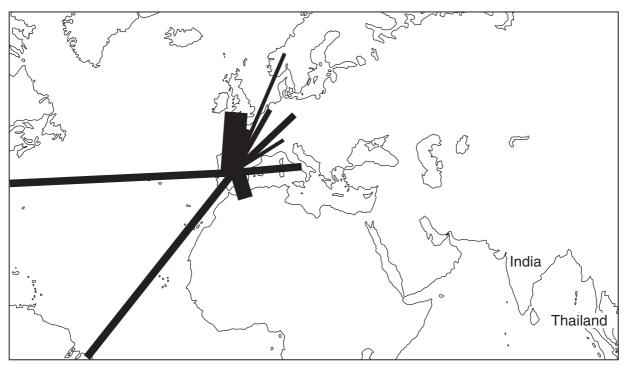
Using the results of Question 2 in Table 2, complete the bar graph, Fig. 11. Use the key and write a title to the graph.

Title .....



**Fig. 11** [4]

[3]



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

(ii)	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.
	[5]

**(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 <i>secondary data</i> ? State <b>two</b> 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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