

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS General Certificate of Education Ordinary Level

Ortige COM

*	
Ø	
μ	
ω	
μ	
ω	
ω	
4	
9	
0	
μ	

CANDIDATE NAME					 	
CENTRE NUMBER			CANDII NUMBE			

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 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.

		my				
		2	1			
		Section A	Can			
		Answer all questions in this section.				
Stu	Section A Answer all questions in this section. udy the map extract of part of eastern Jamaica, which is at a scale of 1:50 000.					
(a)	Des	cribe the land-use and relief in each of the following squares:				
	(i)	2942				
	(ii)	2247				
(b)	Wh:	at is the feature found at 222463?[-			
(c)	Give	e the six figure grid reference for the bridge where the main road crosses the Planta den River, near the centre of the map extract.	-			
			[1]			
(d)	Find	I 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	cribe the distribution of settlement to the north of the Plantain Garden River.				
			•••			

	Describe four different features of the coastline that would be seen if you walke from Booby South Point at 312471 as far as 330426.	For Examiner's
(f)	Describe four different features of the coastline that would be seen if you walke from Booby South Point at 312471 as far as 330426.	Use
		age.co.
		13
		1
	[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), Mohammad Nagar, a part of Karachi.

General land-use zones in Karachi

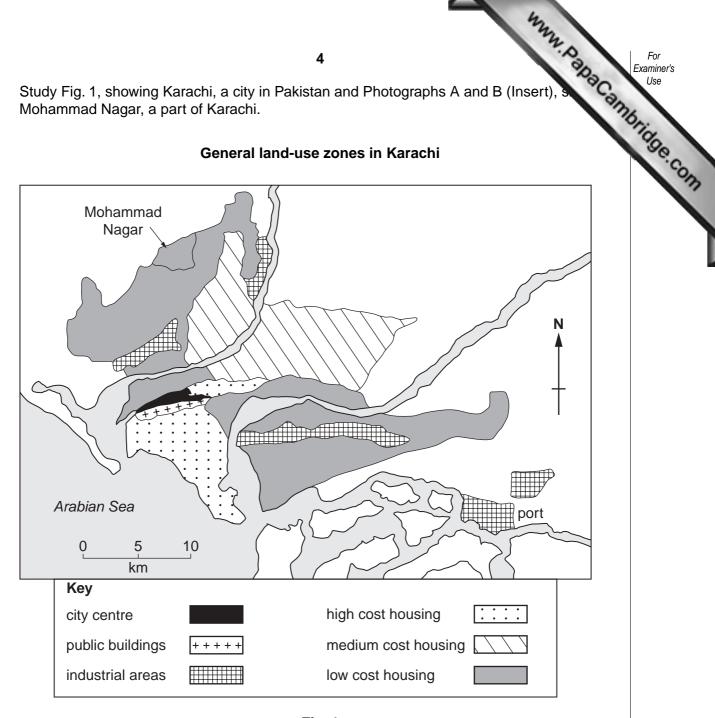


Fig. 1

(a) Describe the location within Karachi of:

(i)	areas of high cost housing;
	[2]
(ii)	areas of low cost housing.
	[2]

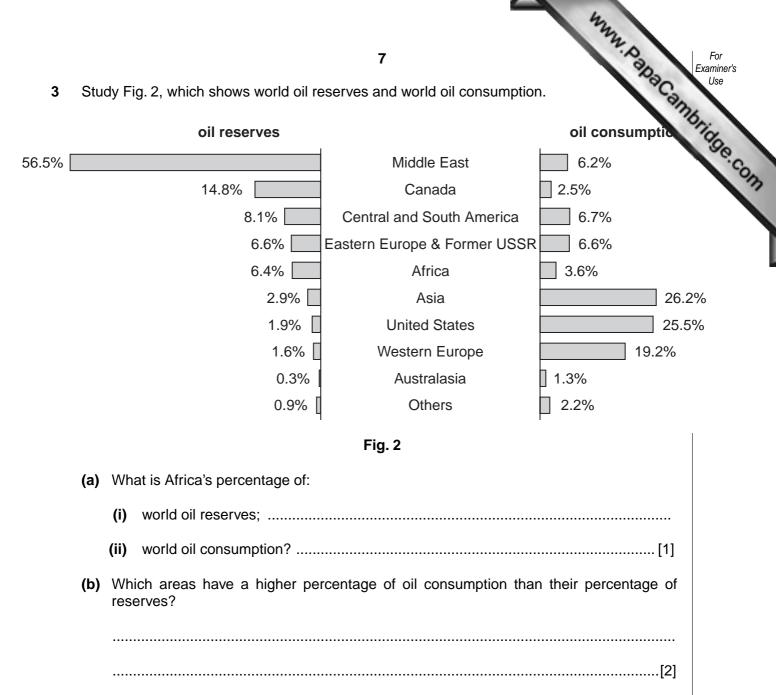
(b) Photographs A and B (Insert) were taken in the Mohammad Nagar area of

www.PapaCambridge.com 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

BLANK PAGE

www.PapaCambridge.com

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

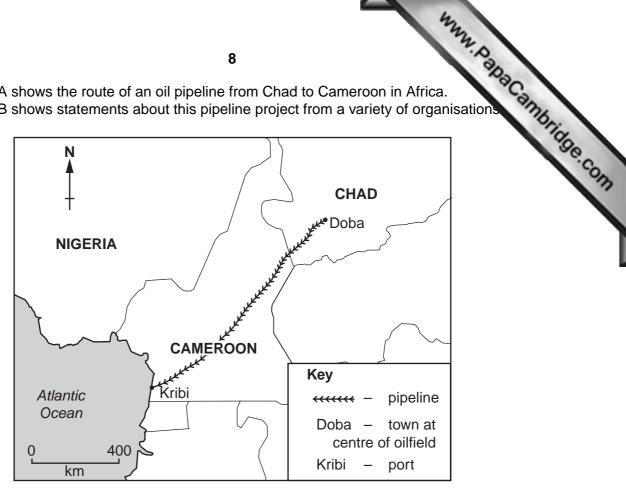


Fig. 3A

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 1100km 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%.

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

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

Kano Temperature range 14°C Total precipitation 920mm

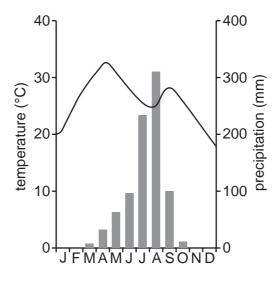
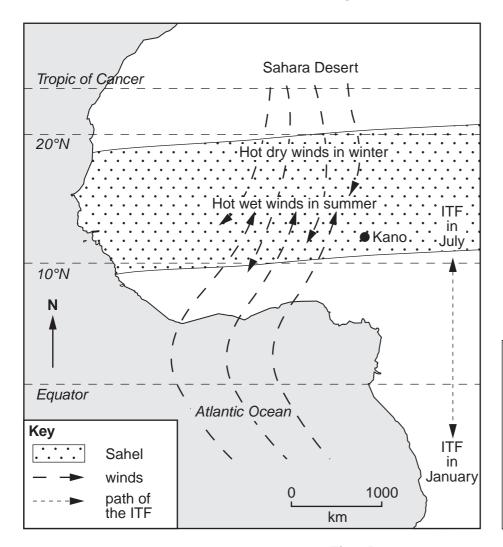


Fig. 4A



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.

(a)	Whi	ich five months make up Kano's rainy season?	Cal
(b)		v much rain falls in Kano in August?	
(c)	How	v far is Kano from the nearest point on the coast?	[1]
			[1]
(d)	Usir	ng the information on the map, suggest why Kano is hot and dry for part of the ye	
(e)	Wha	at weather changes cause the rainy season to arrive?	
(f)		Sahel region suffers from unreliable rainfall.	.[2]
(')		Using evidence from the map, suggest what could cause this unreliability.	
	(-)		
			.[1]
	(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.

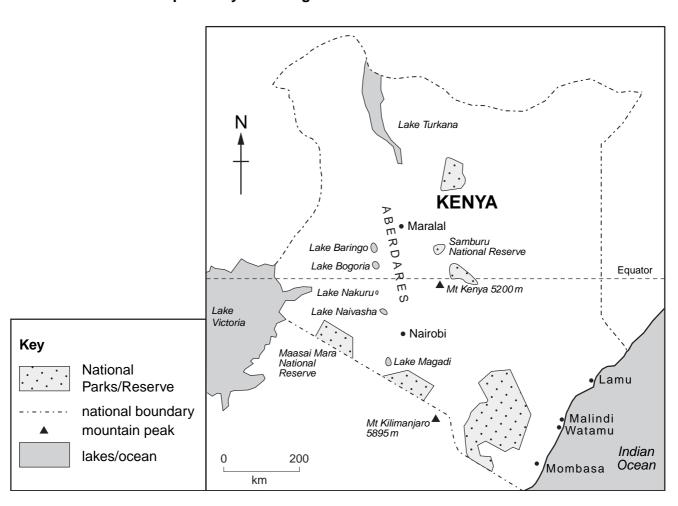
Day 3 Samburu/Treetops (200 km)

www.papaCambridge.com 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



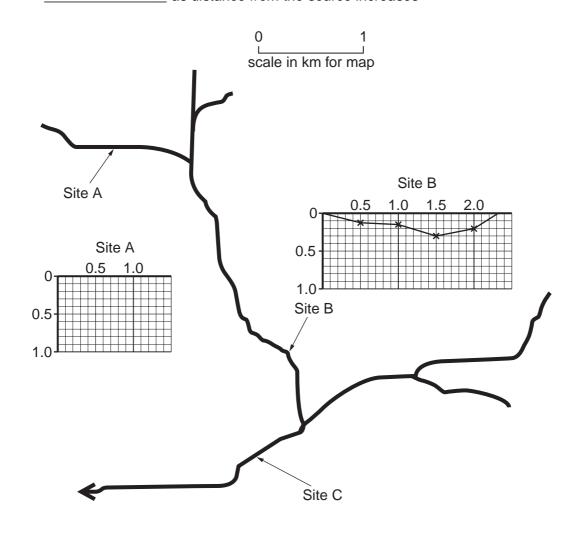
		the transfer of the transfer o	
		State four different types of attraction that Kenya can offer to tourists. 1	-
a)	(i)	State four different types of attraction that Kenya can offer to tourists.	10.0
		1	-
		2	
		3	
		4	
		[4]
	(ii)	For one of these types, give two reasons why it attracts tourists.	
		Type of attraction chosen	
		1	
		2	
		[2]
o)	Sug	gest two ways in which tourism could benefit people in Kenya.	
	1		
	2		
		[2]
c)	Sug	gest two problems that could be caused by people relying on tourism for income.	
	1		
	2	_	
		[2]

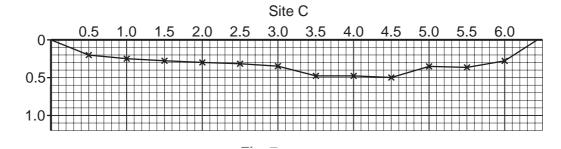
Section B

Answer one question in this section.

- www.PapaCambridge.com 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:

decrease increase shallower deeper 'The width will _____ and the depth will become as distance from the source increases'





For
Examiner's

www.PapaCambridge.com How did the students measure the width of the stream at each site? Their equ (b) (i) included two ranging poles and a measuring tape. Draw a labelled diagram, for your answer. Fig. 8 [3] Table 1 Depth in metres at distances from left bank Total Width (m) Wetted perimeter (Discharge (m³/sec) 1.5m 6.0m 1.0m 2.0m 2.5m 3.5m 4.0m 4.5m 5.0m 5.5m 0.5m 1.40 0.15 0.10 1.50 0.01 2.50 0.09 В 2.31 0.12 0.15 | 0.30 | 0.20 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 At each site, the students also measured the depth of the stream systematically (every $\frac{1}{2}$ metre). The results of the investigation are shown in Table 1. Draw a line graph for Site A on Fig. 7, to show the depth of the stream, using information from Table 1. [3] The wetted perimeter is the amount of bank and bed which the stream water (c) (i) touches. Use Fig. 7 to calculate the length of the wetted perimeter at Site C. Write your answer in Table 1. [2]

(ii) Explain how the wetted perimeter can change the speed of the river.

I	For
	Examiner's

(d)	(d) (i) The students also measured the velocity of the stream at each site. object was timed travelling over a distance of 10 metres. The recording sh B is shown in Fig. 9. Fill in two other pieces of important information on the sheet.						
		Location		Sit	е В		
			<u> </u>				
				of floating obje			
		18.0	16.8	15.4	18.5	13.3	
				Fig. 9			[2]
	(ii)	over 10 metre	s was repeated				
		Reason					
							[1]
	(iii)		cross-sectio	nal area most			again at Fig. 7 the possibilities [1]
		3.2	29 m ²	$0.32{\rm m}^2$	0.09	9 m ²	
(e)		ly Table 1 and nge from Site <i>I</i>					cs of the stream criptions.
	Wid	th					
	Dep	un					
	DISC	harge					

		17	
(f)	fell i	stream was measured again at the same sites after a storm, when 60 mm in 48 hours. Describe how this storm would change the discharge and the procedure stream.	anne
	Disc	charge change	
	Pro:	cesses change	
		[3	
(g)	(i)	Describe in detail how the investigation could be improved. Suggest reasons for these improvements.	or
	(ii)	Write a brief conclusion to this investigation.	1]
		Į,	21

	For
E	kaminer's
	1100

				Mark.
		18		For Examine
in a coa	astal tour	nternational school in Spain investigate ist town. The teacher suggested the main worldwide tourism in the past 40 years.	in reason for the	population in population incressed by the population incressed by the population incressed by the population in the past 40
	ggest th ı ars.	ree reasons why there has been a grow	th in worldwide to	urism in the past 40
Re	ason 1			
Re	ason 2			
Re	ason 3			
				[3]
The stu	dents wr	ote a short questionnaire to investigate	the hypothesis	
í	people w	ho moved to the tourist town came fron	n countries close	to Spain'
	estionna in Fig. 10	ires were given to 100 parents at a so	chool event. Stud	y the questionnaire
	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 (show	n in Fig. 10)?	

(ii) State one advantage and one disadvantage of the method of using paren. source of data.

State one advantage and one disadvantage of the method of using parents ource of data. Advantage	For Examiner's
State one advantage and one disadvantage of the method of using parent source of data.	Use
Advantage	Tidde
	OM
Disadvantage	
[2]	

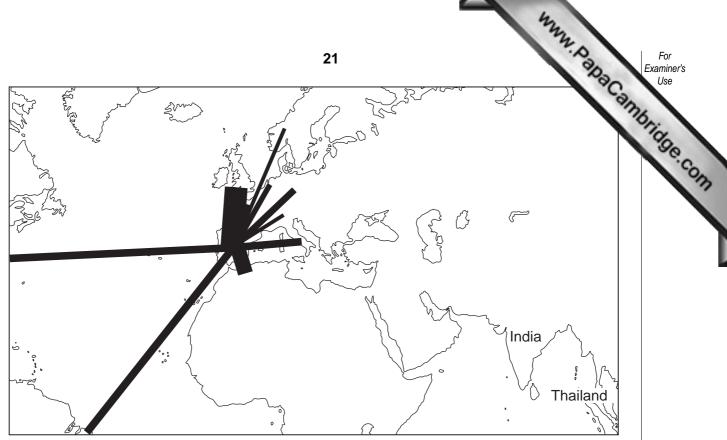
Table 2

Q1. Were you born in this coastal town?	Yes =	: 69%	No = 31%			
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		1	9	4	
	40–49 yrs		33		0	
	Ov	er 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.

www.PapaCambridge.com 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.

35 30 number of people 25 20 Key Born in town 15 Not born in town 10 5 under 10-19 yrs 20-29 yrs 30-39 yrs 40-49 yrs over 10 yrs 50 yrs length of residency Fig. 11 [4] Look again at the results of Questions 1 and 2 in Table 2 and the graph, Fig. 11. Describe the pattern shown by the data.



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 why so many of the migrants came from European countries.			
co many or the migranic came money and poars occurrence.			
[3]			

((iii)	Write a	conclusion	to this	investigation
١	,	vviite a	COLICIUSION	to tilio	ii ivostigation.

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.
22 For Examiner's
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 coastant town. They found information about the town on the internet. This information is sh on Fig. 13.

www.papaCambridge.com 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.	f			

Fig. 14

[3]

24

BLANK PAGE

www.PapaCambridge.com

Copyright Acknowledgements:

Question 2 Photograph A © Caroline Penn/Panos Pictures.
Question 2 Photograph B © Caroline Penn/Panos Pictures.

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

University of Cambridge International Examinations is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of University of