

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS General Certificate of Education Ordinary Level

CANDIDATE NAME				
CENTRE NUMBER		CANDIDATE NUMBER		



GEOGRAPHY 2217/23

Paper 2 October/November 2013

2 hours 15 minutes

Candidates answer on the Question Paper.

Additional Materials: Calculator

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 IN ANY BARCODES.

Section A

Answer all questions.

Section B

Answer one question.

The Insert contains Photograph A for Question 4, Tables 1 and 2 and Fig. 9 for Question 7, and Fig. 12 for Question 8.

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 Exam	For Examiner's Use		
Section A	Section A		
Q1			
Q2			
Q3			
Q4			
Q5			
Q6			
Section B			
Q7			
Q8			
Total			

This document consists of 32 printed pages and 1 Insert.



Section A

For Examiner's Use

Answer all the questions in this section.

- 1 The 1:50 000 map is of Grahamsdale, Zimbabwe.
 - (a) Study the area of the map shown on Fig. 1.

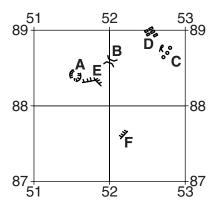


Fig. 1

	(1)	Identify feature A.
	(ii)	Identify feature B .
	(iii)	Identify feature C .
		[1]
	(iv)	Identify feature D .
		[1]
	(v)	On Fig. 1, draw the positions of the lakes formed by the dam walls E and F . [2]
(b)		e the six-figure grid reference of the 954m spot height, to the east of Richlands, near centre of the map.
		[1]
(c)		e the compass direction and straight-line distance from the dam at 555908 to the at 520911.
	Con	npass direction
	Dist	ance metres [2]

d)	Describe and suggest reasons for the pattern of land use, within 1 km of the Mazowe river, east of grid line 55.	Fo Exami Us
	[4]	

(e) Study the area of the map shown in Fig. 2.

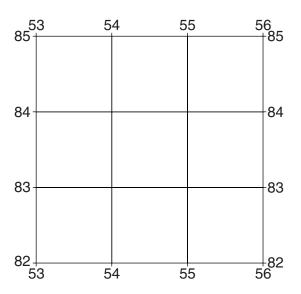


Fig. 2

(i)	Describe the relief and drainage of the area.
	[5]
(ii)	Give map evidence for human activity in the area shown in Fig. 2.
	[2]
	[Total: 20 marks]

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For Examiner's Use 2 Study Fig. 3 which shows the origins of the population of New Zealand who were born in another country.



[1]

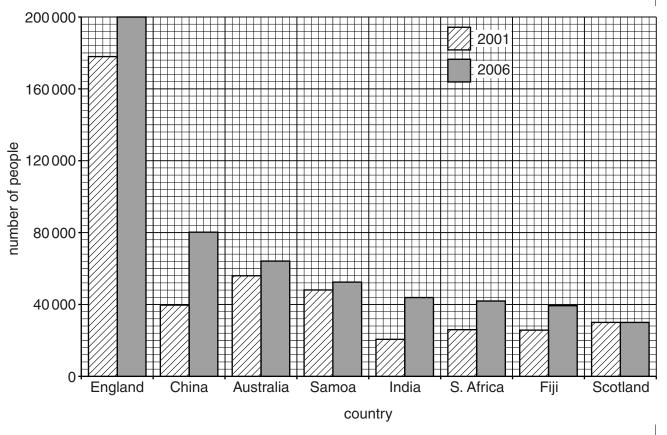


Fig. 3

(a) On Fig. 3 the country of origin is ranked according to the 2006 data. Rank the countries according to the 2001 data beginning with the largest.

_argest	

(b) (i) Which country was the origin of the largest number of people in both years?
(ii) Which country provided the largest increase in numbers between 2001 and 2006
[
(iii) Which country showed no change from 2001 to 2006?
[

(c) Study Fig. 4, which shows the annual net population change through migration for New Zealand.

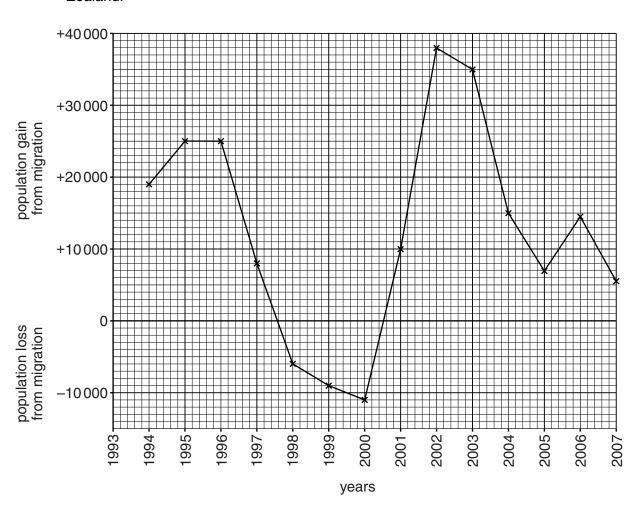


Fig. 4

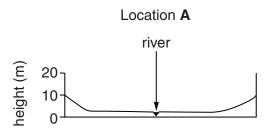
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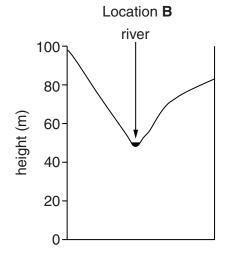
For Examiner's Use

(i)	Complete the gramigration.	aph to show that ir	ı 1993 New Zeala	nd gained 11 000 pe	eople from [1]	For Examiner's Use
(ii)	In which years di	d emigration excee	ed immigration?			
					[1]	
(iii)	Complete the ser	ntences. Choose fi	rom these words:			
	birth rate	death rate	decrease	increase		
	If emigration exc	eeds immigration t	he size of the pop	oulation may		
	If	is gre	eater than		the	
	population will ha	ave a natural incre	ase.		[2]	
				[Tota	l: 8 marks]	

3 Study Fig. 5A, which shows the cross-section of a river and its valley at three different locations along the river.

For Examiner's Use





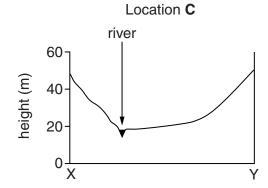


Fig. 5A

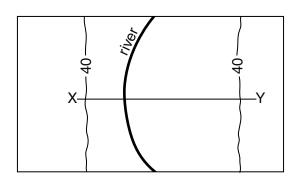
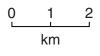


Fig. 5B



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(a)		e river was to rise above the top of the bank at each location, which wou est area of flooding? Give a reason for your answer.	uld have the	For Examiner's Use
			[2]	
(b)	(i)	What is the height of the river at B ?		
			[1]	
	(ii)	Describe the shape of the valley at B .		
			[3]	
(c)	_	5B is a map of location ${\bf C}$. The line of the cross-section is shown. On Figure 3 graphs of the 20 m contour on either side of the valley.	g. 5B sketch [1]	
(d)	Put	the locations ${\bf A},{\bf B}$ and ${\bf C}$ in order from the source to the mouth of the riv	er.	
	Sou	ırce	Mouth [1]	
		[Tot	al: 8 marks]	

Stu	dy Photograph A (Insert) of a landscape in the Philippines.	For
(a)	Describe the landscape in Photograph A and how it is being used.	Examiner's Use
	[5]	

(b) Study Fig. 6, which shows the climate of the area shown in Photograph A.

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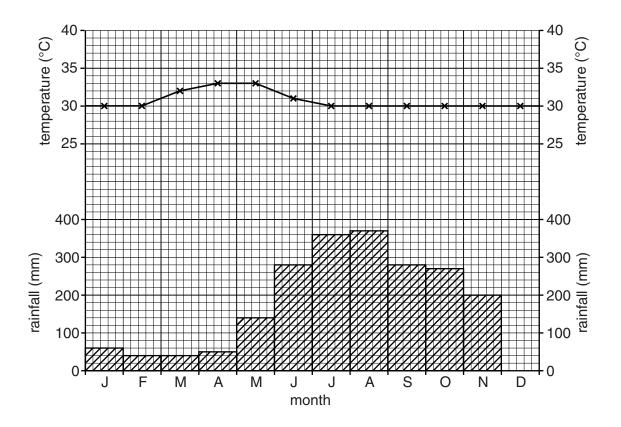


Fig. 6

(i)	Complete Fig. 6 to show rainfall of 120 mm in December.	[1]
(ii)	Suggest why the climate shown on Fig. 6 is good for crop growth.	
		.[2]

[Total: 8 marks]

5 Study Fig. 7, which shows three linked industrial systems.

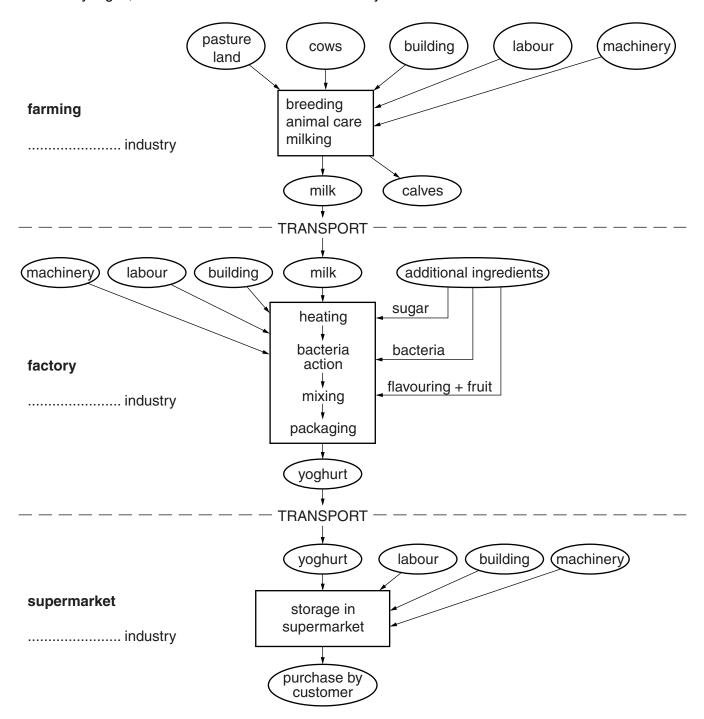


Fig. 7

(a)	(i)	Identify the types of industry by inserting primary , secondary and tertiary on the lines provided in Fig. 7.	the [2]	For Examiner's
	(ii)	What activity links one industry to the next?		Use
			[1]	
(b)	(i)	Identify two outputs from the farming system shown in Fig. 7.		
		1		
		2	[2]	
	(ii)	Which additional ingredient is added first at the factory?		
			[1]	
	(iii)	Which three inputs are common to all three systems?		
			[1]	
(c)	Circ	ele one answer below to complete the sentence.		
	The	farm shown on Fig. 7 is a		
CC	omme	ercial arable farm commercial mixed farm subsistence pastoral farm	[1]	
		[Total: 8 mar	ks]	

6 Study Fig. 8, which shows the ten biggest wheat producing countries in 2009.

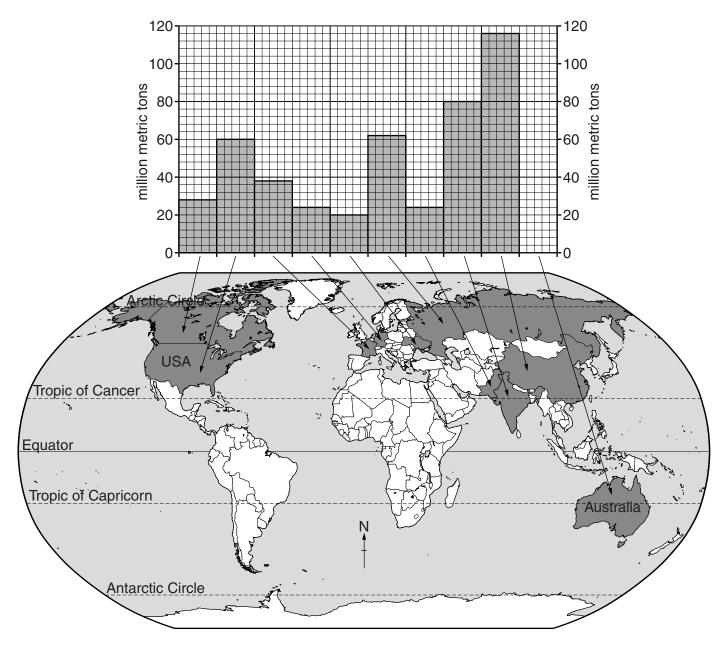


Fig. 8

Des	scribe the distribution of the ten biggest wheat producing countries shown in Fig. 8.
	[4]
(i)	How much wheat was produced by the USA in 2009?
	[1]
(ii)	Complete the graph in Fig. 8 to show 22 million metric tons of wheat produced in Australia in 2009.
(i)	Based on the evidence of Fig. 8, circle one correct statement.
	wheat is mainly a tropical crop
	wheat is mainly a temperate crop
	wheat is mainly a polar crop [1]
(ii)	Using evidence from Fig. 8, suggest why there are not many major wheat producing countries in the southern hemisphere.
	[1]
	[Total: 8 marks]

Section B

For Examiner's Use

Answer one question in this section.

7 Some students wanted to compare two shopping centres in Miraflores, an area in Lima, Peru. Larco Avenue is part of the Central Business District (CBD) and Enrique Palacios is an area of local shops in a residential district.

The students decided to test the following hypotheses:

Hypothesis 1: People who use the two shopping centres buy different types of goods.

Hypothesis 2: Shoppers visiting Larco Avenue take longer to get to the shops and go there more frequently, than those visiting Enrique Palacios.

(a) (i) First the students had to classify the shops. Use arrows to match the statements in columns X and Y in the table below which shows examples of classification. One has been done for you.

X	Υ
Laundry	Convenience shop
Not being used	Comparison shop
Furniture store	Other service
Chemist / drug store	Unoccupied shop

[2]

The students' next task was to count the different types of shops located in the two areas. Their results are shown in Table 1 (Insert).

(ii)	Suggest two reasons why there are unoccupied shops in the two shopping centres
	1
	2
	[2]

(iii) Which **two** of the following statements about different types of goods are correct? Tick (✓) your choices.

Tick (✓)

[2]

(b)	Next the students used a questionnaire with some people in the shopping centres. This questionnaire is shown in Fig. 9 (Insert).		
	(i)	Suggest two pieces of advice their teacher gave them about using a questionnaire with people who are shopping.	
		1	
		2	
		[2]	
	(ii)	Table 2 (Insert) shows the results of Question 1 in the questionnaire. Do the results shown in Tables 1 and 2 support Hypothesis 1: People who use the two shopping centres buy different types of goods?	
		Use evidence from Tables 1 and 2 to support your answer.	

For Examiner's Use (c) To investigate **Hypothesis 2:** Shoppers visiting Larco Avenue take longer to get to the shops and go there more frequently, than those visiting Enrique Palacios, the students asked Questions 2 and 3 in their questionnaire.

For Examiner's Use

(i) Table 3 below shows the results of Question 2 in the questionnaire.

Table 3

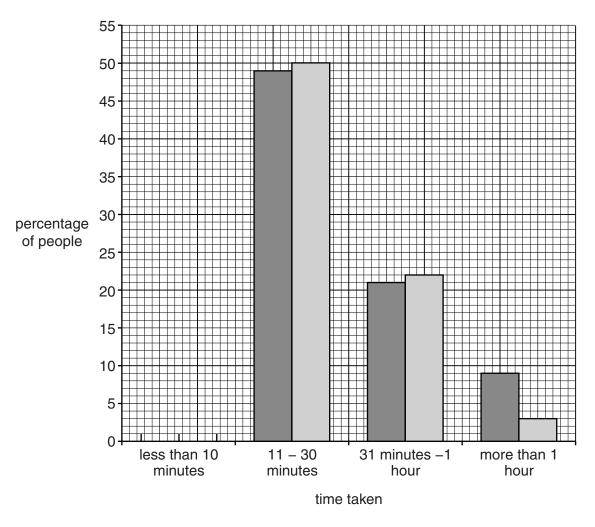
Answers to Question 2
(How long did your journey from home to the shops take?)

Time taken	Larco Avenue (CBD)	Enrique Palacios (Local shops)
	%	%
Less than 10 minutes	21	25
11 to 30 minutes	49	50
31 minutes to 1 hour	21	22
More than 1 hour	9	3

Use the results from Table 3 to complete the graph in Fig. 10 below.

[2] For Examiner's Use

Answers to Question 2



Key

Larco Avenue (CBD)

Enrique Palacios (Local shops)

Fig. 10

(ii) Table 4 below shows the results of Question 3 in the questionnaire.

For Examiner's Use

Table 4

Answers to Question 3
(When was your previous visit to these shops?)

	Larco Avenue (CBD)	Enrique Palacios (Local shops)
	%	%
1 day ago	3	28
Between 2 & 6 days ago	15	50
Between 1 & 4 weeks ago	38	22
More than 4 weeks ago	44	0

Use the results from Table 4 to complete the pie chart for Enrique Palacios in Fig. 11B opposite. [2]

Answers to Question 3

Larco Avenue (CBD)

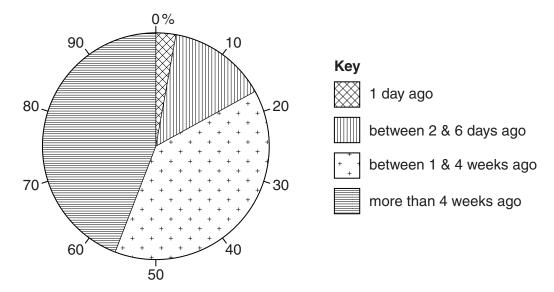


Fig. 11A

Enrique Palacios (Local shops)

For Examiner's Use

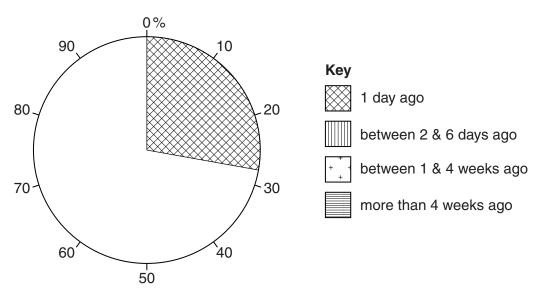


Fig. 11B

(iii) Do the results of Questions 2 and 3 in the questionnaire support **Hypothesis 2**: Shoppers visiting Larco Avenue take longer to get to the shops and go there more frequently, than those visiting Enrique Palacios?

Use evidence from Figs 10 and 11 to support your conclusion.
[4]

(d) One student thought that answers to the question: 'How long did your journey from home to the shops take?' might be affected by the type of transport which people used. The students then included an extra question (Question 4) in their questionnaire. The results of Question 4 are shown in Table 5 below.

For Examiner's Use

Table 5

Answers to Question 4
(How did you travel to the shopping centre today?)

	Larco Avenue (CBD)	Enrique Palacios (Local shops)
	%	%
Walk	8	28
Car	36	22
Taxi	20	22
Bus	36	28

(i)	Use the answers to Question 4 to compare the percentage of people who walked and travelled by car to the two shopping centres.	For Examiner's Use
	[2]	
(ii)	How might the answers to Question 4 change the students' conclusion to Hypothesis 2 : Shoppers visiting Larco Avenue take longer to get to the shops and go there more frequently, than those visiting Enrique Palacios?	
	[2]	
(iii)	Suggest three factors which may affect people's method of travel to shopping centres.	
	1	
	2	
	3	
	[3]	

(e)	To extend the investigation one student included the following question in her questionnaire: 'In which district of the city do you live?'	iner's
	Suggest a suitable map to show the results of this question and describe how you would draw this map. You may use a diagram in your answer.	
	[3]	
	[Total: 30 marks]	

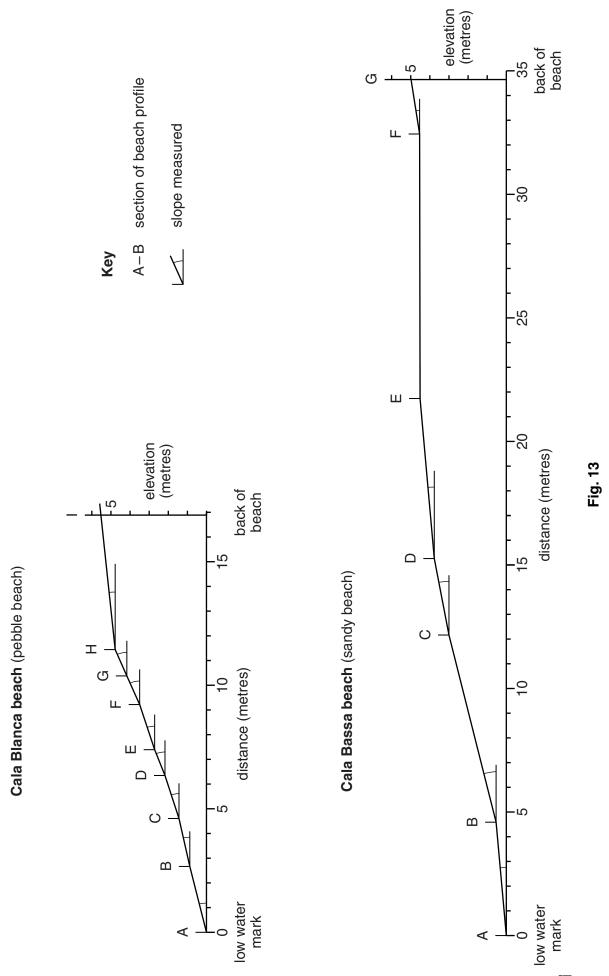
Students who lived on a Mediterranean island carried out fieldwork at two local beaches.

For Examiner's Use

8

	la Blanca is a pebble beach in a bay surrounded by cliffs and Cala Bassa is a long, aight sandy beach.			
(a)	a) Before they began their fieldwork their teacher reminded them of the need to be near the sea. Suggest three safety precautions that the students could take to rethe risk of accident.			
	1			
	2			
	3			
		[3]		
	In s	tudying the two different beaches the students tested the following hypotheses:		
	Нур	pothesis 1: The pebble beach has a steeper profile than the sandy beach.		
	Нур	pothesis 2: The size of beach material gets bigger away from the sea.		
(b)	edg	nvestigate Hypothesis 1 the students used a rope to make a transect line from the e of the sea to the top of the beach. They then measured the different angles of be. Fig. 12 (Insert) is a diagram which shows their method.		
	(i)	Describe how the students measured the beach profile.		

(ii)	The results of the measurements on both beaches are shown in Fig. 13, opposite.	For Examiner's
	Use these results to compare the width of the two beaches.	Use
	[1]	
(iii)	What conclusion could the students reach about Hypothesis 1: The pebble beach has a steeper profile than the sandy beach? Support your answer with evidence from Fig. 13.	
	[4]	



(c) To investigate **Hypothesis 2:** The size of beach material gets bigger away from the sea, the students used a quadrat to estimate the percentage of different beach material in each section of their beach profiles.

For Examiner's Use

Their results are shown in Tables 6 and 7, below.

Table 6

Beach material at Cala Blanca beach

Section of beach profile	Ivnes of heach material and size (%)			s)
	Sand (Less than 2 mm)	Shingle (2 – 20 mm)	Pebble (21 – 100 mm)	Cobble (101 – 500 mm)
A – B	0	76	24	0
B – C	0	64	28	8
C – D	0	64	36	0
D-E	0	48	40	12
E-F	0	16	68	16
F-G	0	4	76	20
G – H	0	8	80	12
H – I	0	0	80	20

Table 7

Beach material at Cala Bassa beach

Section of beach profile	IVINGS OF HEACH MATERIAL AND SIZE			s)
	Sand (Less than 2 mm)	Shingle (2 – 20 mm)	Pebble (21 – 100 mm)	Cobble (101 – 500 mm)
A – B	100	0	0	0
B – C	88	12	0	0
C – D	96	4	0	0
D-E	100	0	0	0
E-F	100	0	0	0
F-G	84	16	0	0

(i)	Describe how the students used the quadrat to collect this data.	For Examiner's Use
		USE
	[3]	
(ii)	Suggest one problem of classifying beach material into sand, shingle, pebble or cobble.	
	[4]	

Use

Use Table 6 to complete the divided bar graph for section D - E on Cala Blanca (iii) beach in Fig. 14 below. Examiner's Types of beach material at Cala Blanca beach 50 100 A - BC - Dsection of beach profile D - EE - FF-G G - HH - IKey 50 90 10 20 30 40 60 70 80 100 sand percentage shingle Fig. 14 pebble Types of beach material at Cala Bassa beach cobble 100 50 A - BB - Csection of beach profile C - DD – E E - FF-G 50 30 70 80 90 100 10

> Fig. 15 2217/23/O/N/13

percentage

IV)	gets bigger away from the sea? Support your decision about both beaches with data from Tables 6 and 7 and Figs 14 and 15.	For Examiner's Use
	Cala Blanca beach	
	Cala Bassa beach	
	[4]	
(v)	Explain why the size of beach material varies along the beach profile between low water mark and the back of Cala Blanca beach.	
	[2]	

(A)	(i)	Suggest a hypothesis to investigate longshore drift.	
(u)	(י)	Suggest a hypothesis to investigate longshore unit.	For
			Examiner's Use
			USE
		[1]	
	(ii)	Describe how the students could investigate this hypothesis.	
	(,	2000 Non and olddonio oddid invocagate and hypothesion	
		[4]	
		[Total: 30 marks]	
		[Total: 00 marks]	

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Question 4 Photograph A

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Question 6 Map Extract

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