

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS General Certificate of Education Ordinary Level

	2217/13
CANDIDATE NUMBER	

Paper 1 October/November 2012

1 hour 45 minutes

Candidates answer on the Question Paper.

Additional Materials: Calculator

Protractor

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 ON ANY BARCODES.

Write your answer to each question in the space provided. If additional space is required, you should use the lined page at the end of this booklet. The question number(s) must be clearly shown.

Answer three questions, one from each section.

The Insert contains Photographs A, B and C for Question 2, Photograph D for Question 3 and Photographs E, F and G for Question 6.

The Insert is **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	iner's Use
Q1	
Q2	
Q3	
Q4	
Q5	
Q6	
Total	

This document consists of 26 printed pages, 2 blank pages and 1 Insert.

UNIVERSITY of **CAMBRIDGE International Examinations**

Section A

Answer **one** question from this section.

For Examiner's Use

QUESTION 1

(a) Study Fig. 1, which shows information about the population of four countries.

Country	Area (sq km)	Population	Population density (per sq km)	Birth rate (per 1000)	Death rate (per 1000)	Natural population growth rate (per 1000)
Bangladesh	143998	156 050 883	1084	24.7	9.2	
Pakistan	796 095	174578558	219	25.9	7.2	18.7
Australia	7741220	21 262 641	2.7	12.5	6.7	5.8
Italy	301 340	58 126 212	193	8.2	10.7	-2.5

	Fig. 1
(i)	Which of the countries listed in Fig. 1 is most densely populated?
	[1]
(ii)	Calculate the natural population growth of Bangladesh. You must show how you worked out your answer.
	per 1000 people [2]
(iii)	Suggest three reasons why the birth rate is higher in Pakistan (an LEDC) than Australia (an MEDC).
	1
	2
	3
	[3]

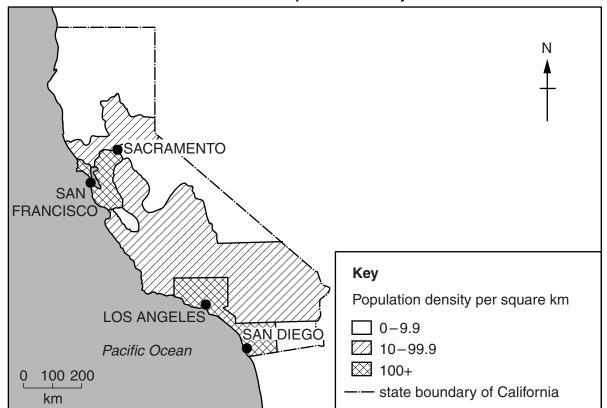
Bangladesh is overpopulated. Describe four problems which may be caused by overpopulation.	Exa
1	
2	
3	
4	
[4]	- 1

(iv)

(b) Study Fig. 2, which shows information about California, in the USA.

For Examiner's Use





California: Relief California: Precipitation per year

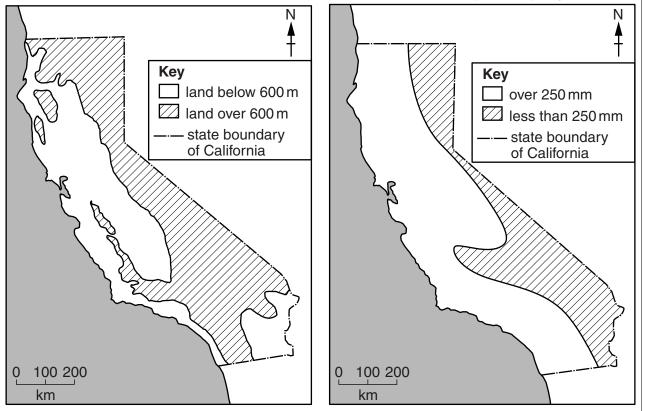


Fig. 2

(i)	Describe the location of the areas with a high population density (over 100 people per square kilometre) in California.	For Examiner's Use
	[3]	
(ii)	Using the information in Fig. 2 only , explain the location of areas of high population density within California.	
	[5]	

(c)	For an example of international migration which you have studied, name the countries between which people moved. Refer both to pull and to push factors to explain the reasons for the migration between your chosen countries.		
	Countries between which people moved – from to		
	[7]		
	[Total: 25 marks]		

END OF QUESTION 1

QUESTION 2

For Examiner's Use

(a)		dy Photographs A, B and C (Insert), which show three methods of reducing traffic plems in urban areas.
	(i)	Traffic can cause congestion in the CBD of many urban areas. What is meant by the initials CBD?
		C
	(ii)	Which one of Photographs A, B or C, was taken in the CBD? Give one piece of evidence to justify your choice.
		Photograph
		Evidence
		[2]
	(!!!\	
	(iii)	Describe how each of the three methods shown in Photographs A, B and C reduces traffic in the CBD.
		Photograph A
		Photograph B
		Photograph C
		[3]
	(iv)	Explain why it is important to reduce problems of traffic congestion in urban areas.
		[4]

(b) Study Fig. 3, which shows the city of Hereford, in the UK.

For Examiner's Use

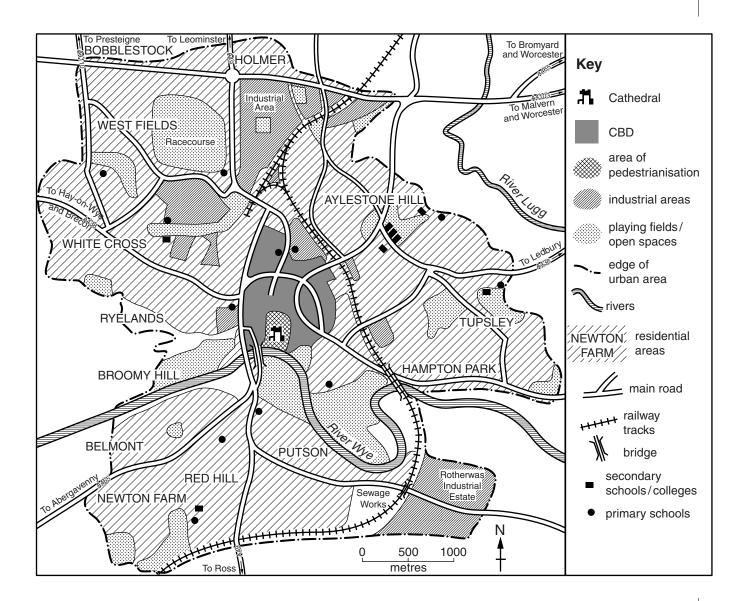


Fig. 3

(i)	Suggest three reasons why traffic congestion is likely in the CBD of Hereford.	1
•		Exa
	1	
	2	
	3	
	[3]	
	[ο]	
)	The planning department of Hereford City Council wants to reduce traffic congestion in the CBD. The following options are being considered:	
	1 Restrict the type of vehicle allowed into the CBD;	
	2 Improve public transport throughout the city;	
	3 Build a ring road around the city.	
	Which option would you advise them to choose? Explain why you chose your option and why you rejected the other options.	
	Option	
	[5]	

in many urban areas there are places where people are living in poor quality housing.
Name an urban area which you have studied where people are living in poor quality housing. Describe the attempts which have been made to solve this problem.
Name of urban area
[7]
[Total: 25 marks]

END OF QUESTION 2

Section B

Answer one question from this section.

For Examiner's Use

QUESTION 3

(a) Study Fig. 4, a graph which shows information about river velocity and river processes.

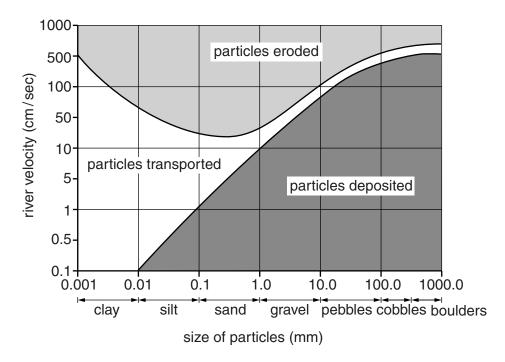


Fig. 4

(i)	What is meant by a river's <i>velocity</i> ?	
		[1]
(ii)	Which river process will occur when:	
	the river bed is sand and the velocity is 100 centimetres per secon	d;
	 the river bed is gravel and the velocity is 1 centimetre per second? 	
		[2]
(iii)	Name three processes by which a river is likely to carry out erosion.	
	1	
	2	
	3	[3]
2012	2217/13/O/N/12	[Turn over

((iv)	Explain how a river's load is transported by saltation, solution, suspension and traction.
		Saltation
		Solution
		Suspension
		Cuoperiolori
		Traction
		[4]
(b)	Stud	dy Photograph D (Insert) which shows a river meander.
	(i)	Describe the features of this meander.
		[3]
		[0]

	(11)	Explain how river processes have created this landform.	For
			Examin
			Use
		rea	
		[5]	
(۵)	Гои	a named area which you have studied describe the impreste of vivor flooding	
(C)	LOI	a named area which you have studied, describe the impacts of river flooding.	
	Man	ne of area	
	ivaii	ne or area	
	•••••		
	•••••		
	•••••		
	•••••		
		[7]	
		[Total: 25 marks]	
			1

END OF QUESTION 3

QUESTION 4

For Examiner's Use

(a) Study Figs 5A and 5B, which show information about deforestation in tropical countries.

Causes of deforestation in Amazonia

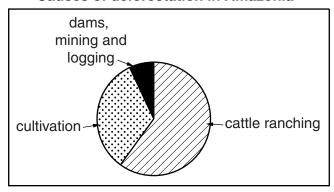


Fig. 5A

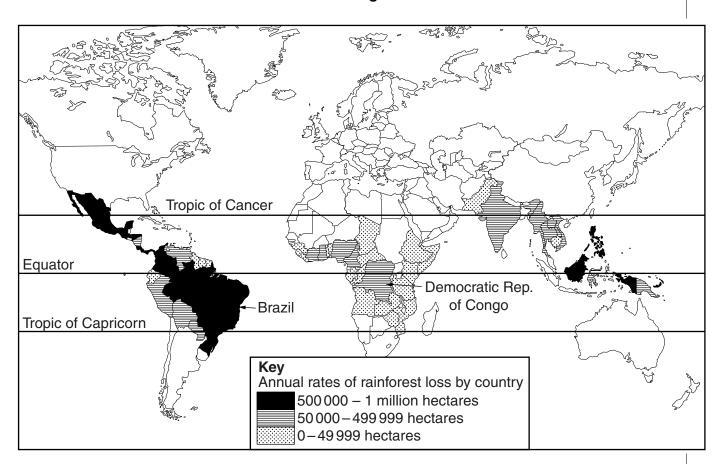


Fig. 5B

(i) Use Fig. 5A to estimate the percentage of deforestation caused by cattle ranching in Amazonia.

.....%

(ii)	-	r the annual rate of rainforest of reach country you should under		For Examiner's Use
	• Brazil			
	0 – 49 999 hectares	50 000 – 499 999 hectares	500 000 - 1 million hectares	
	Democratic Repub	lic of Congo		
	0 – 49 999 hectares	50 000 – 499 999 hectares	500 000 – 1 million hectares [2]	
(iii)	Give three reasons wh	ny it is difficult for LEDCs to red	luce the rate of deforestation.	
	1			
	2			
	3			
(iv)	Explain how tropical ra	inforests could be used sustain	nably.	
			[4]	

(b) Study Fig. 6, information about the impacts of deforestation.

For Examiner's Use

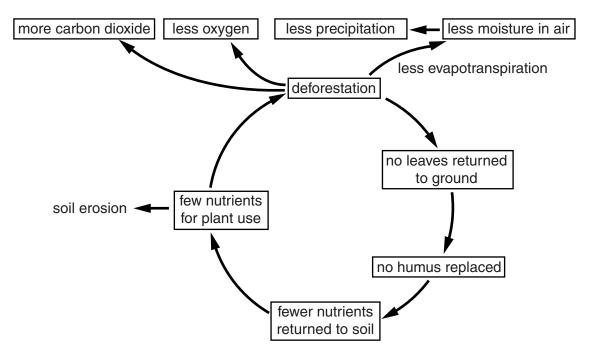


Fig. 6

(i)	Using Fig. 6 identify three impacts of deforestation on the atmosphere.
	1
	2
	3
	[3]

	Explain how deforestation may lead to flooding of local rivers.	
		Exan
		0
	[5]	
Г	a named area of tropical rainforest which you have studied, describe and explain	
the	main features of its climate .	
NIo	me of area of rainforest	
iva	The of area of fairnotest	

[Total: 25 marks]

END OF QUESTION 4

Section C

Answer one question from this section.

For Examiner's Use

QUESTION 5

(a) Study Fig. 7, which shows information about industry in Japan.

Most of Japan's industry is located close to the coast. The 'Pacific Belt' between Tokyo and Fukuoka contains 70% of Japan's manufacturing industry. As a result, the main industrial areas are becoming increasingly crowded. This results in a series of problems for the people who live there.

The Japanese government tried to develop industries in other areas. Heavy industry, such as engineering and the making of steel and chemicals, was not suitable as many of the raw materials were imported and the finished products exported. Also the interior of Japan is mountainous.

The Pacific Belt' contains: 65% of Japan's population; 70% of manufacturing output;

- 50% of public companies headquarters;
- 85% of foreign financial institutions;
- Three high speed rail lines.

Four main industrial zones ① Fukuoka ② Osaka-Kobe ③ Nagoya ④ Tokyo Pacific Belt ② urban area

Fig. 7 2217/13/O/N/12

(i)	Name an industrial zone in the 'Pacific Belt' of Japan.
	[1]
(ii)	Give two pieces of evidence from Fig. 7 which suggest that the 'Pacific Belt' is important for Japan's economy.
	1
	2
	[2]
(iii)	Using Fig. 7 only, explain why most of Japan's industry is located in the 'Pacific Belt'.
	[3]
(iv)	Suggest likely problems for Japan of having most of its industries situated close together.
	[4]

(b) Study Fig. 8, information about the Technopolis Programme in Japan.

For Examiner's Use

Technopolis programme

- The 'Technopolis' idea of creating jobs in high technology industries in order to promote regional growth was announced in 1980
- An area chosen as a 'Technopolis' was an area which attracted high-technology industries

Requirements for a Technopolis

- Area of up to 130 000 hectares
- Good industrial sites
- Near to a city with a population of at least 150 000
- Existing university
- Good high-speed transport links



Fig. 8

(i)	Suggest why areas chosen as Technopolis sites needed to be:
	 near a city with a population of at least 150 000 people;
	near a university;
	in an area with good transport links.
	[3]
(ii)	Suggest advantages for cities like Hakodate of being chosen as a Technopolis site.

	$\neg \mid^{E}$
	-
	•
	•
	-
[7	71

END OF QUESTION 5

QUESTION 6

For Examiner's Use

(a) Study Fig. 9, which shows information about the Gross Domestic Product (GDP) per person and the percentage of people employed in the primary sector in selected countries.

GDP is a measure of a country's wealth.

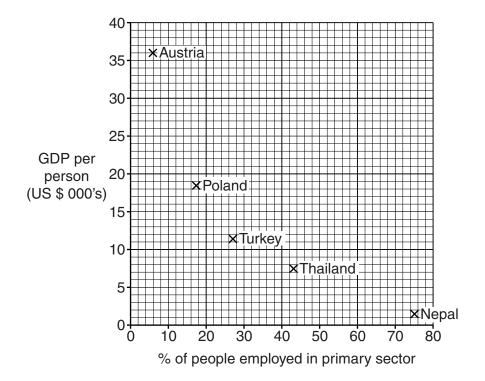


Fig. 9

(i)	Give an example of a job in the primary sector.
	[1
(ii)	Use information from Fig. 9 to show that there is a negative relationship between GDP per person and the percentage of people employed in the primary sector. You should use data in your answer.
	[2

((iii)	Explain why countries with a low GDP per person have a high percentage of people employed in the primary sector.	For Examiner's Use
		[3]	
((iv)	Explain why some countries have a large percentage of their population working in the tertiary sector.	
		[4]	
(b)		dy Photographs E, F and G (Insert), which show an area where tourism has eloped in Swaziland (an LEDC in Africa).	
	(i)	Using Photographs E, F and G \textbf{only} , identify \textbf{three} attractions of Swaziland for tourism.	
		1	
		2	
		3	
		[3]	

	Explain how the infrastructure of a country changes as tourism develops.	
		Exa
	[5]	
For a	a named area which you have studied, describe the impacts of tourism on the ral environment.	
Nam	e of area	
•••••		

[Total: 25 marks]

Additional Page

If you use the following lined page to complete the answer(s) to any question(s), the question number(s) must be clearly shown.

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