



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
General Certificate of Education Ordinary Level

CANDIDATE
NAME

CENTRE
NUMBER

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CANDIDATE
NUMBER

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GEOGRAPHY

2217/13

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.

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Q1	
Q2	
Q3	
Q4	
Q5	
Q6	
Total	

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



Section A

Answer one question from this section.

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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	143 998	156 050 883	1084	24.7	9.2	
Pakistan	796 095	174 578 558	219	25.9	7.2	18.7
Australia	7 741 220	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.

[Empty box for calculation]

..... per 1000 people

[2]

(iii) Suggest three reasons why the birth rate is higher in Pakistan (an LEDC) than Australia (an MEDC).

1

2

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[3]

(iv) Bangladesh is overpopulated. Describe **four** problems which may be caused by overpopulation.

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

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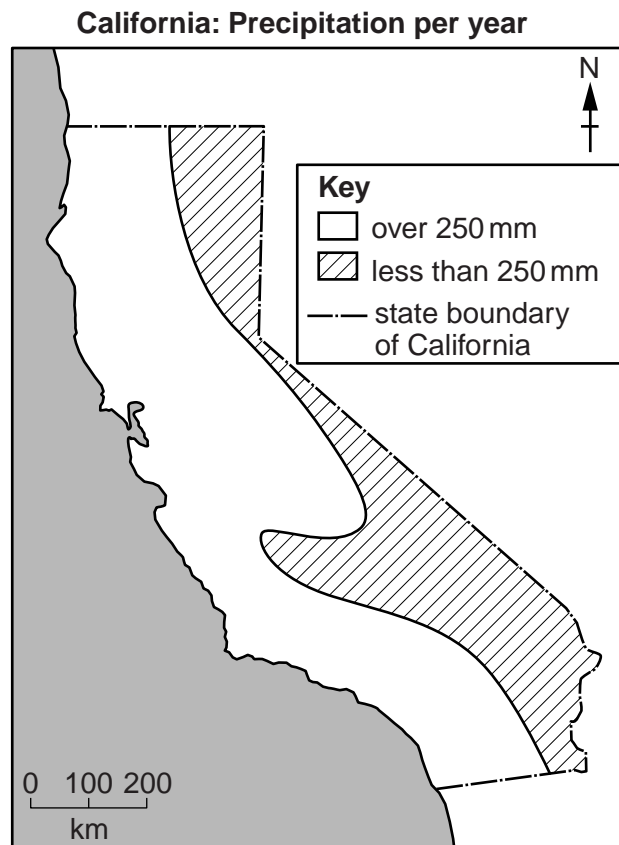
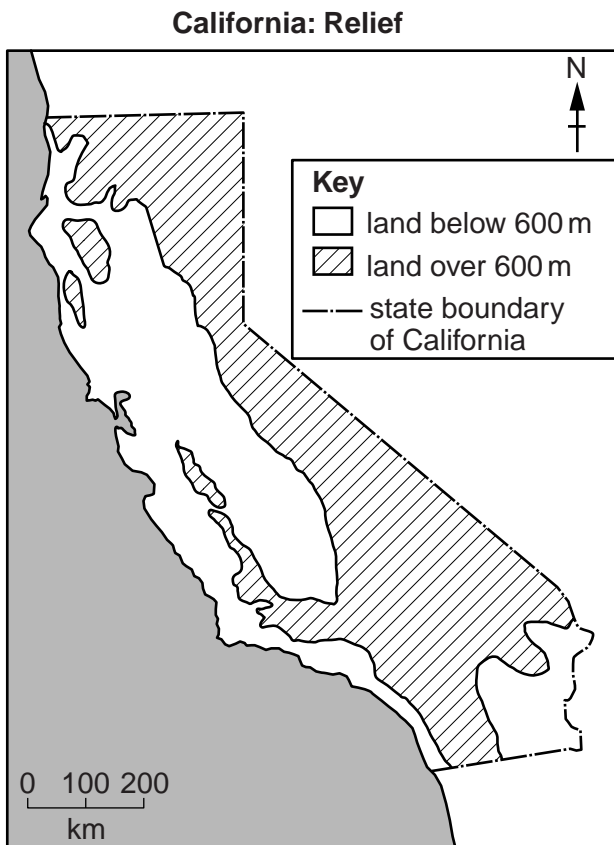
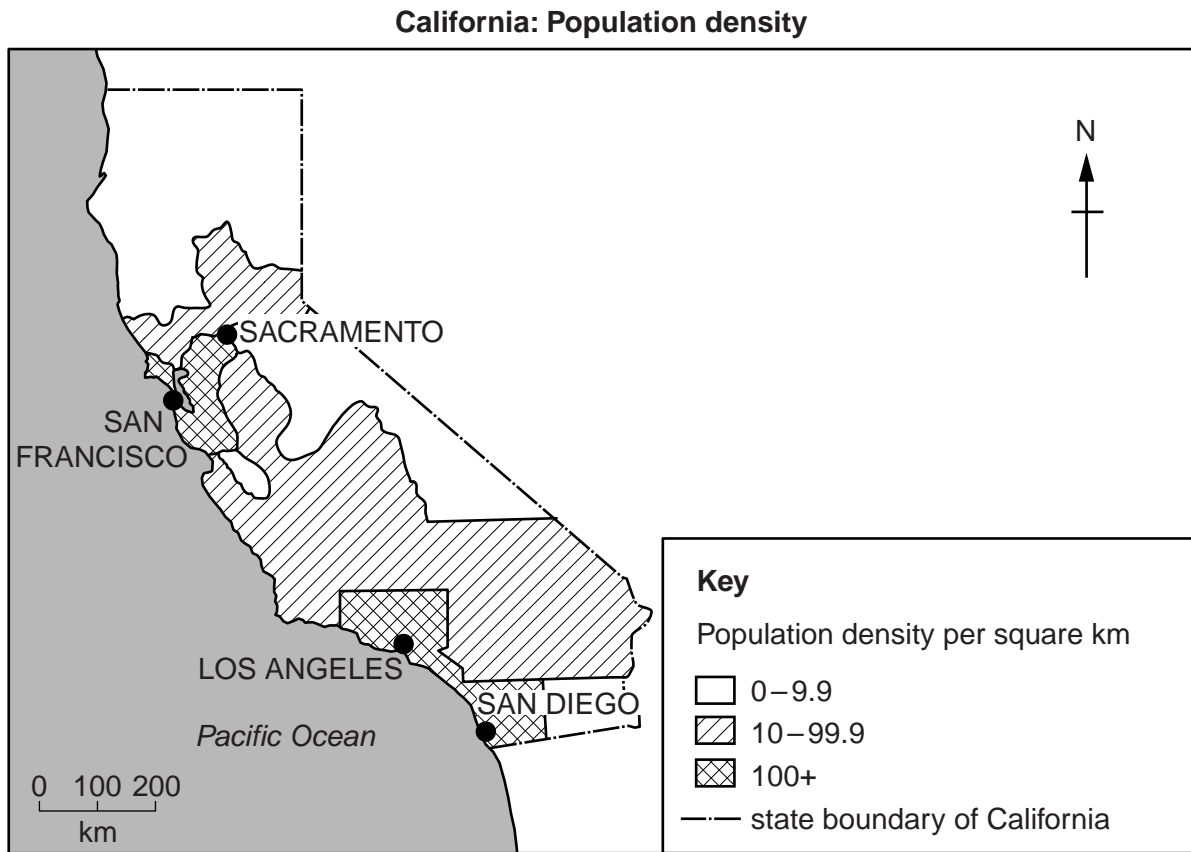


Fig. 2

- (i) Describe the location of the areas with a high population density (over 100 people per square kilometre) in California.

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- (ii) Using the information in Fig. 2 **only**, explain the location of areas of high population density within California.

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QUESTION 2

(a) Study Photographs A, B and C (Insert), which show three methods of reducing traffic problems in urban areas.

(i) Traffic can cause congestion in the CBD of many urban areas. What is meant by the initials CBD?

C..... B..... D..... [1]

(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

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Photograph C

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..... [3]

(iv) Explain why it is important to reduce problems of traffic congestion in urban areas.

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

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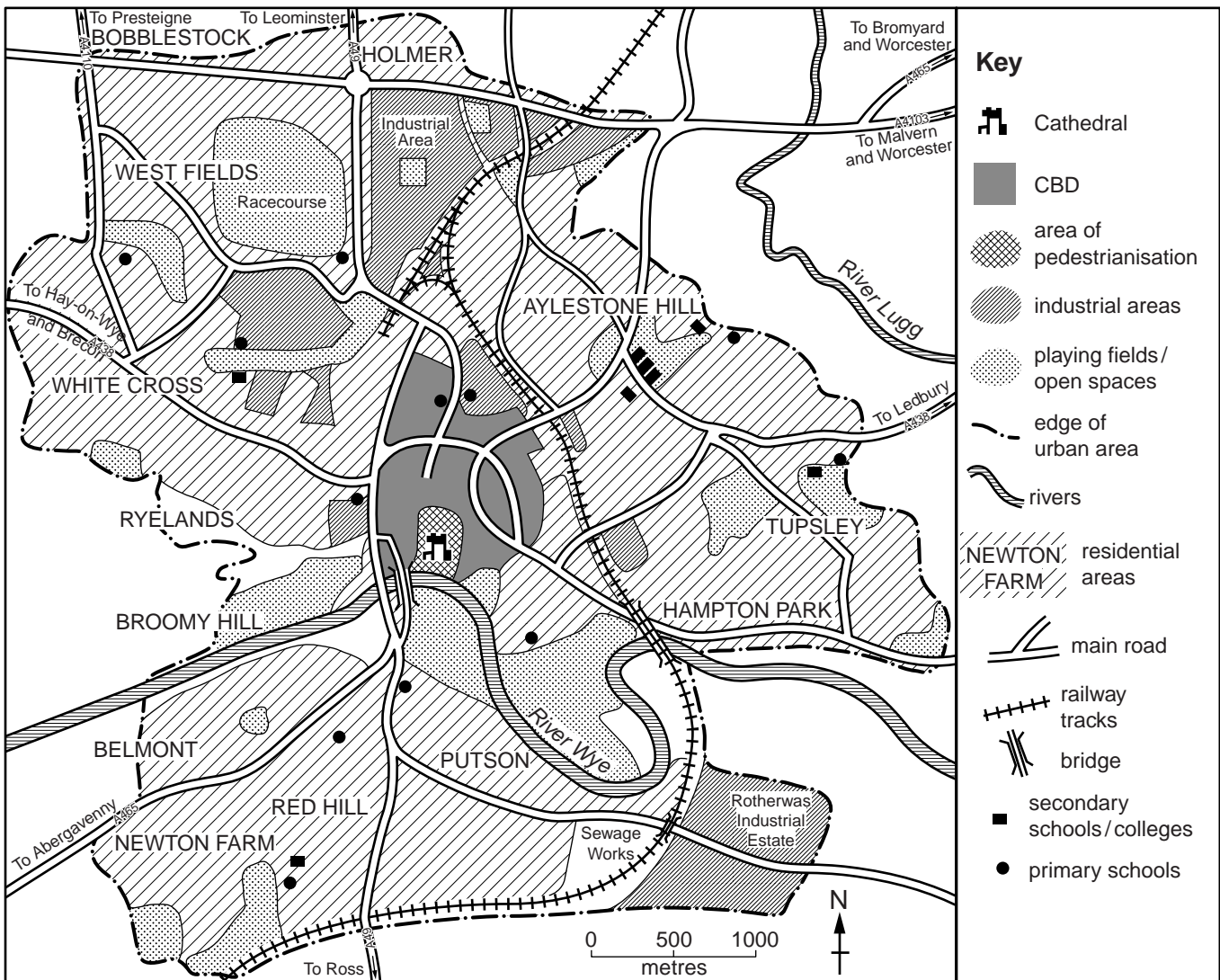


Fig. 3

(i) Suggest **three** reasons why traffic congestion is likely in the CBD of Hereford.

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(ii) 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

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Section B

Answer **one** question from this section.

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QUESTION 3

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

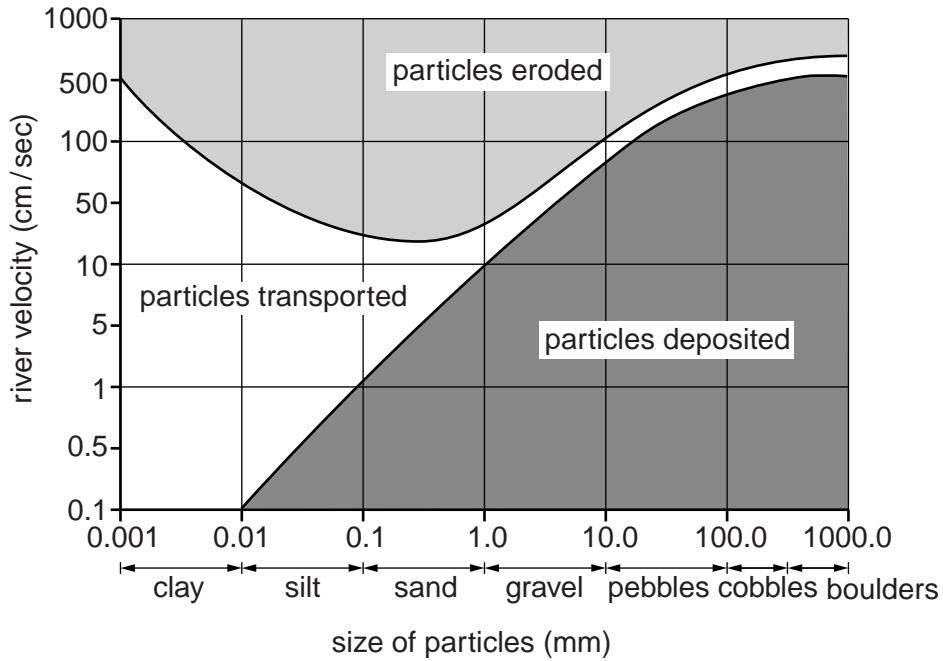


Fig. 4

(i) What is meant by a river's *velocity*?

.....

 [1]

(ii) Which river process will occur when:

- the river bed is sand and the velocity is 100 centimetres per second;

.....

- 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

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[3]

(iv) Explain how a river's load is transported by saltation, solution, suspension and traction.

Saltation

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Solution

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Suspension

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Traction

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(b) Study Photograph D (Insert) which shows a river meander.

(i) Describe the features of this meander.

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(ii) Explain how river processes have created this landform.

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(c) For a named area which you have studied, describe the **impacts** of river flooding.

Name of area

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[Total: 25 marks]

END OF QUESTION 3

QUESTION 4

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

Causes of deforestation in Amazonia

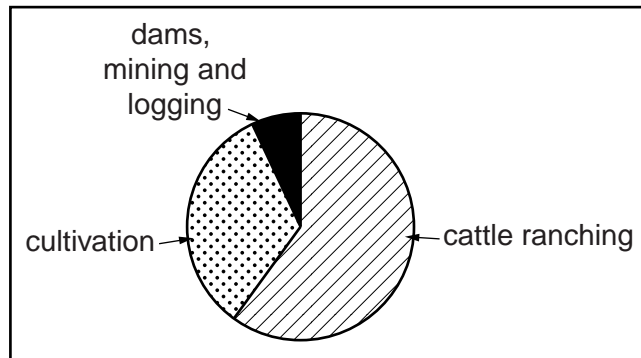


Fig. 5A

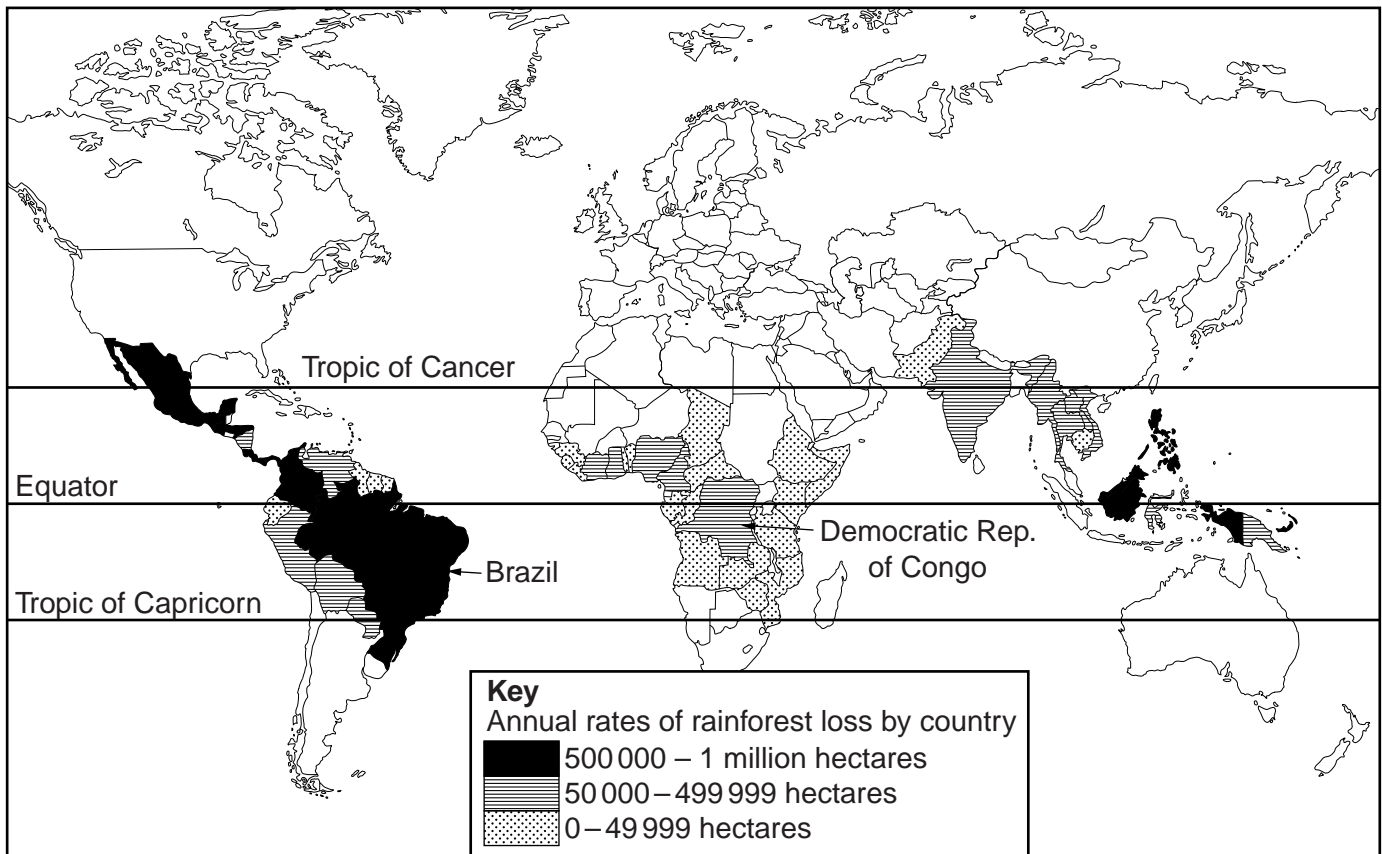


Fig. 5B

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

.....%

[1]

(ii) Use Fig. 5B to identify the annual rate of rainforest loss in Brazil and Democratic Republic of Congo. For each country you should underline the correct answer.

- Brazil

0 – 49 999 hectares 50 000 – 499 999 hectares 500 000 – 1 million hectares

- Democratic Republic of Congo

0 – 49 999 hectares 50 000 – 499 999 hectares 500 000 – 1 million hectares
[2]

(iii) Give **three** reasons why it is difficult for LEDCs to reduce the rate of deforestation.

1

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(iv) Explain how tropical rainforests could be used sustainably.

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

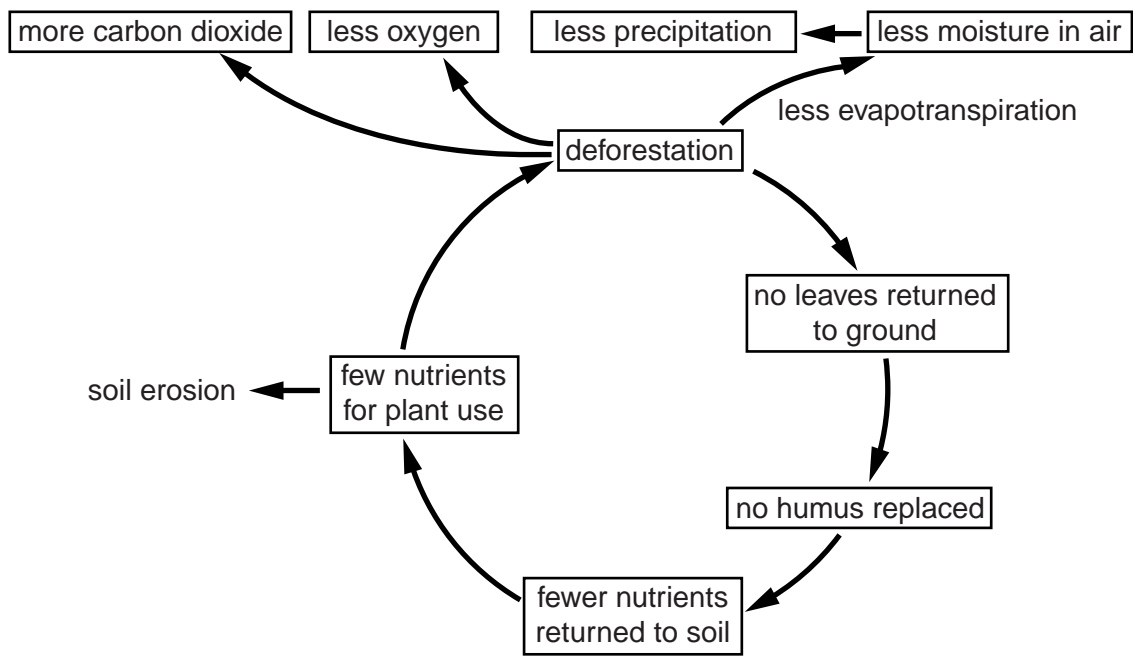


Fig. 6

(i) Using Fig. 6 identify **three** impacts of deforestation on the atmosphere.

- 1
 - 2
 - 3
- [3]

Section C

Answer **one** question from this section.

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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.

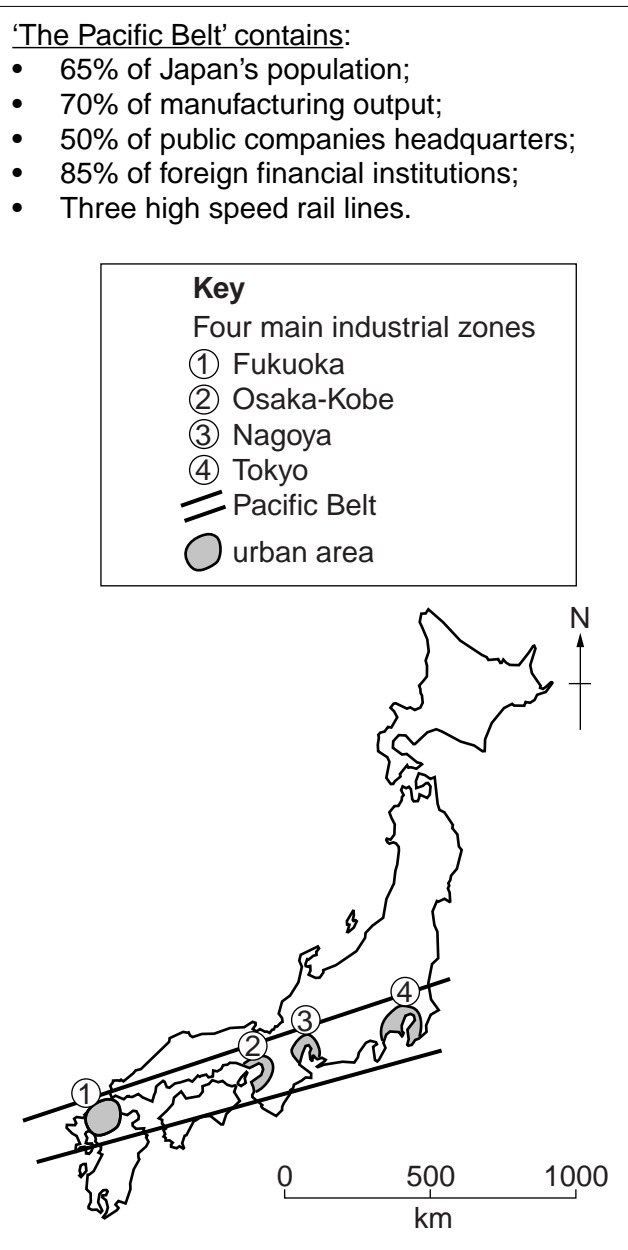


Fig. 7

(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.

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(iii) Using Fig. 7 only, explain why most of Japan's industry is located in the 'Pacific Belt'.

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(iv) Suggest likely problems for Japan of having most of its industries situated close together.

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

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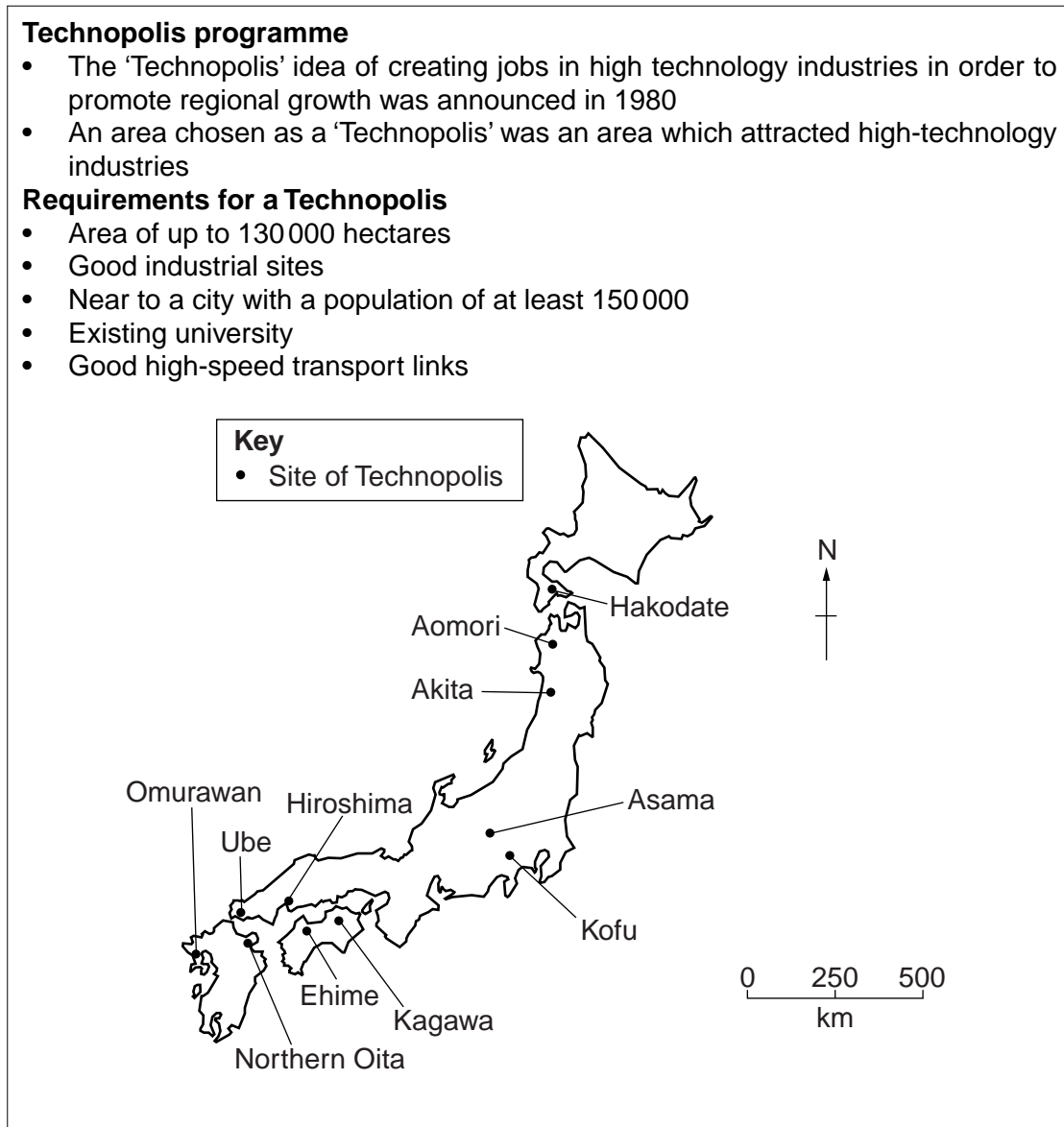


Fig. 8

(i) Suggest why areas chosen as Technopolis sites needed to be:

- near a city with a population of at least 150 000 people;

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- near a university;

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- in an area with good transport links.

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(ii) Suggest advantages for cities like Hakodate of being chosen as a Technopolis site.

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QUESTION 6

- (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.

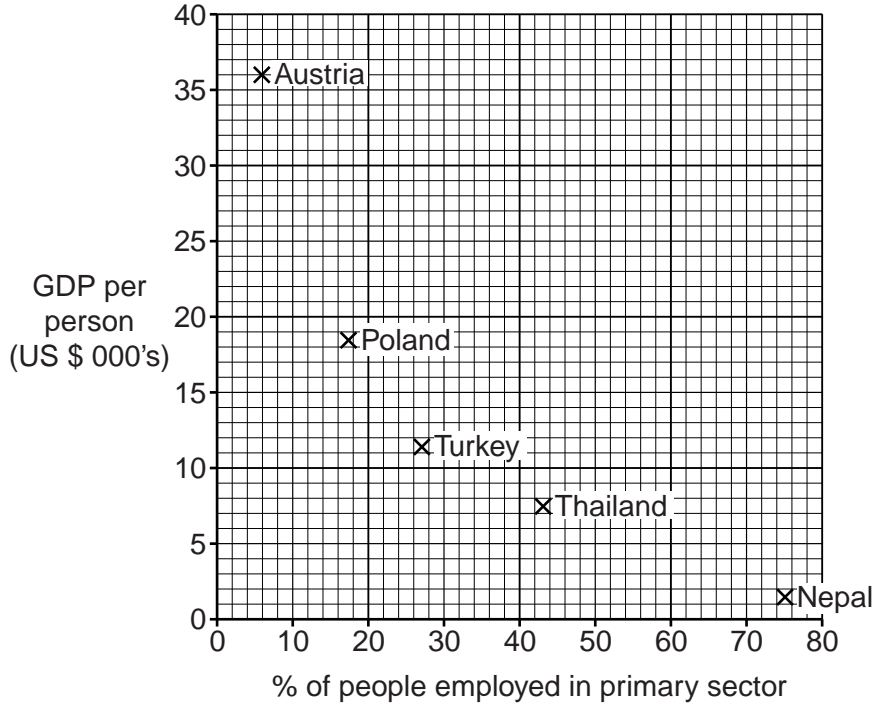


Fig. 9

- (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.

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 [2]

(iii) Explain why countries with a low GDP per person have a high percentage of people employed in the **primary** sector.

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(iv) Explain why some countries have a large percentage of their population working in the **tertiary** sector.

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(b) Study Photographs E, F and G (Insert), which show an area where tourism has developed in Swaziland (an LEDC in Africa).

(i) Using Photographs E, F and G **only**, identify **three** attractions of Swaziland for tourism.

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3
.....[3]

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Copyright Acknowledgements:

Question 1 Fig. 2

© Richard Kemp; *Collins/Longman Atlas for Secondary Schools*; 1989.

Question 5 Fig. 8

© Vincent Bunce; *Area Resource Pack: Japan*; Stanley Thornes; 1993.

Photographs A – G

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