



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
General Certificate of Education Ordinary Level

CANDIDATE
NAME

CENTRE
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.

| For Examiner's Use | |
|--------------------|--|
| 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.



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.

..... per 1000 people

[2]

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

1

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

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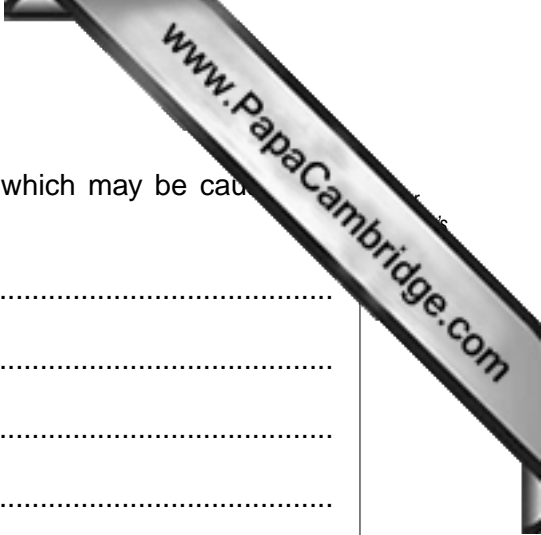
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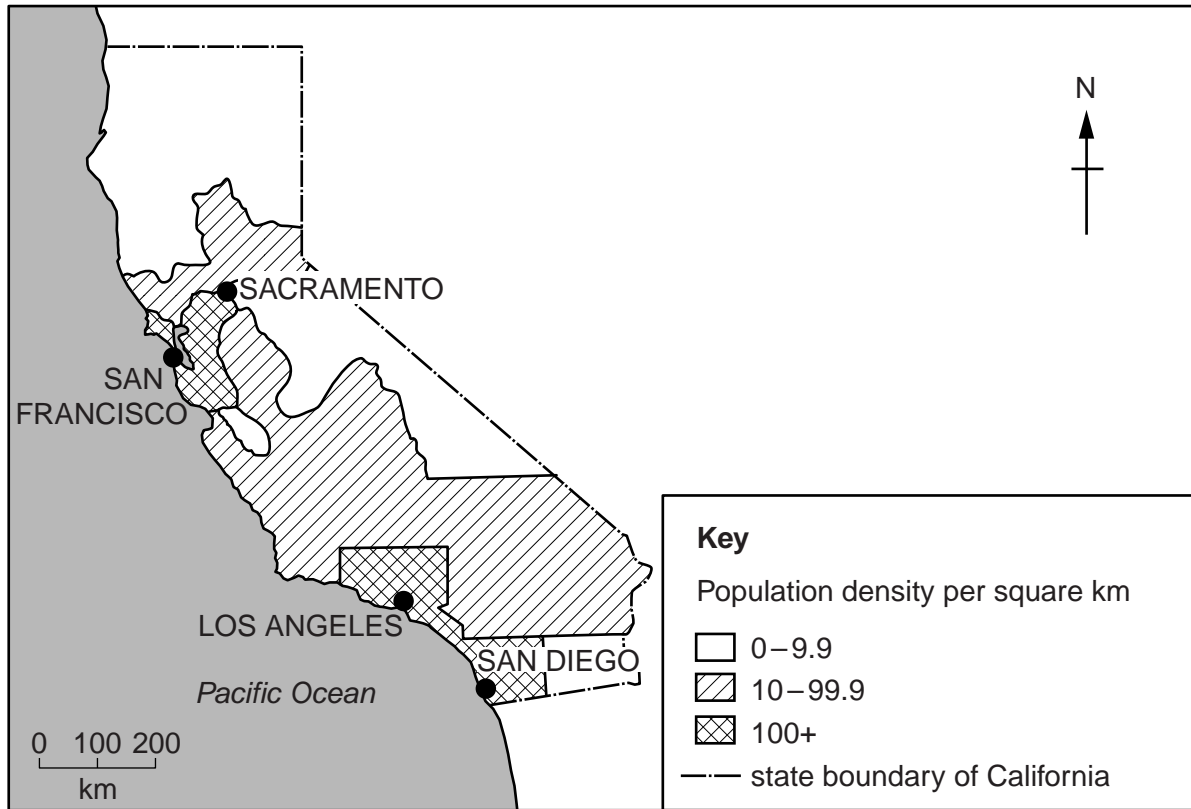
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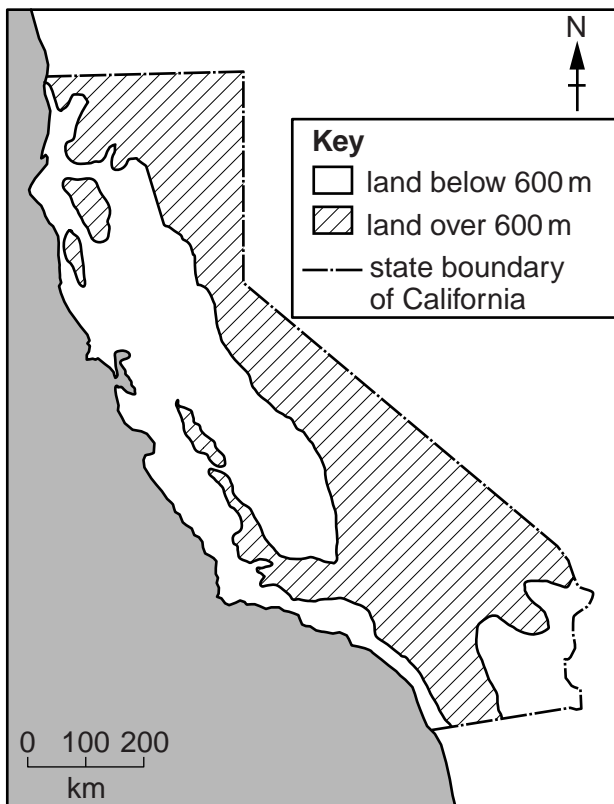


(b) Study Fig. 2, which shows information about California, in the USA.

California: Population density



California: Relief



California: Precipitation per year

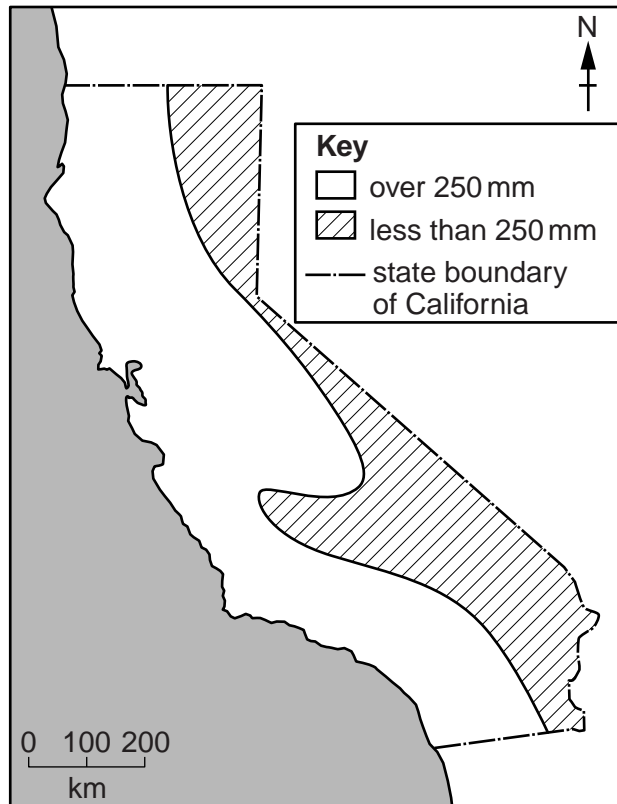
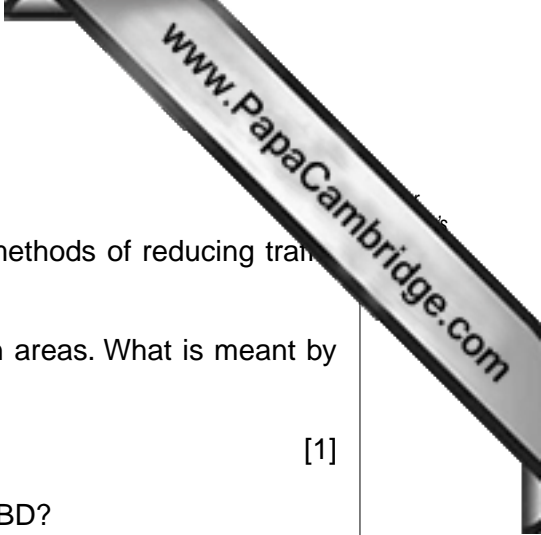


Fig. 2



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

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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.

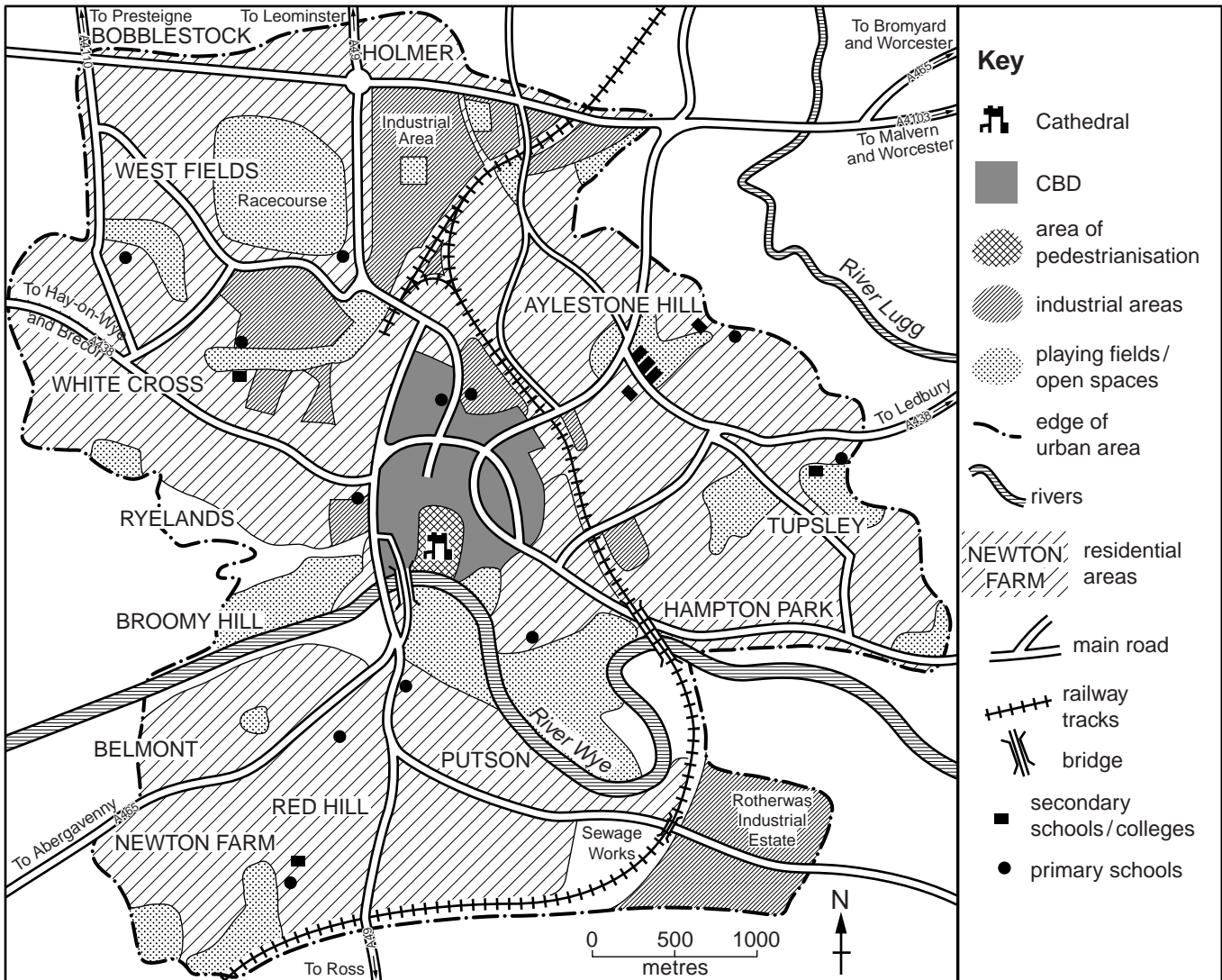


Fig. 3

Section B

Answer **one** question from this section.

QUESTION 3

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

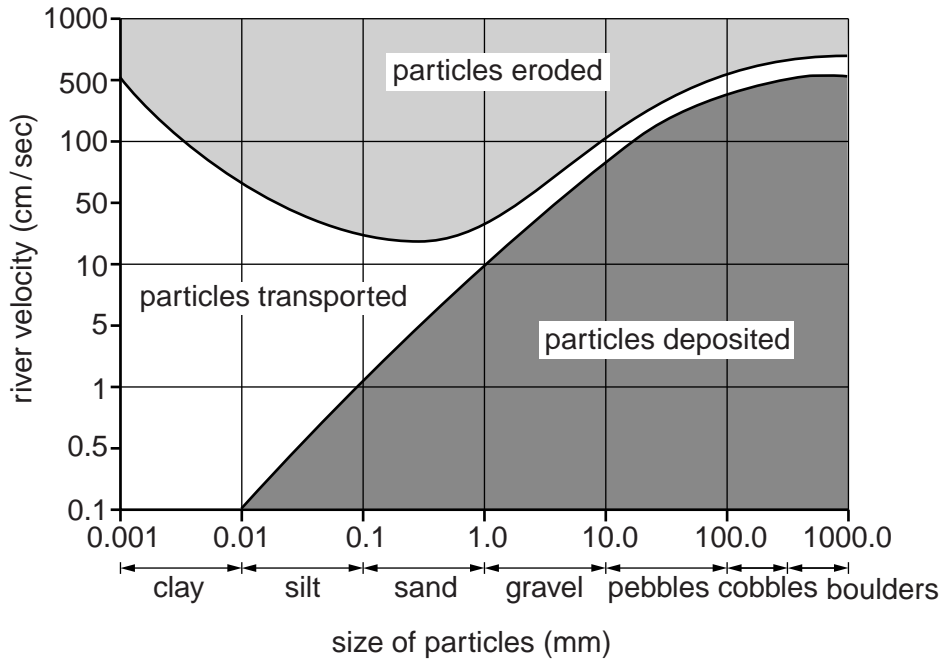


Fig. 4

(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

2

~

503



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

Saltation

.....

.....

Solution

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Suspension

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Traction

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..... [4]

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

(i) Describe the features of this meander.

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..... [3]

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

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[5]

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

Name of area

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[7]

[Total: 25 marks]

QUESTION 4

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

Causes of deforestation in Amazonia

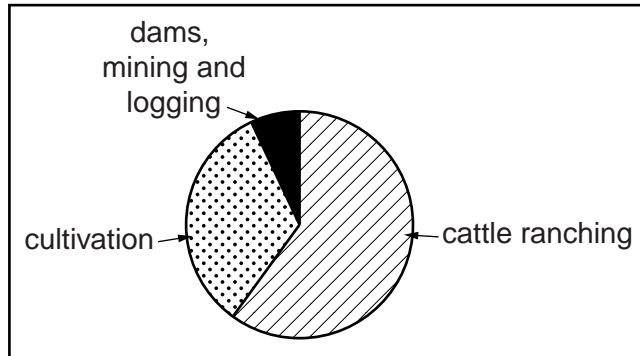


Fig. 5A

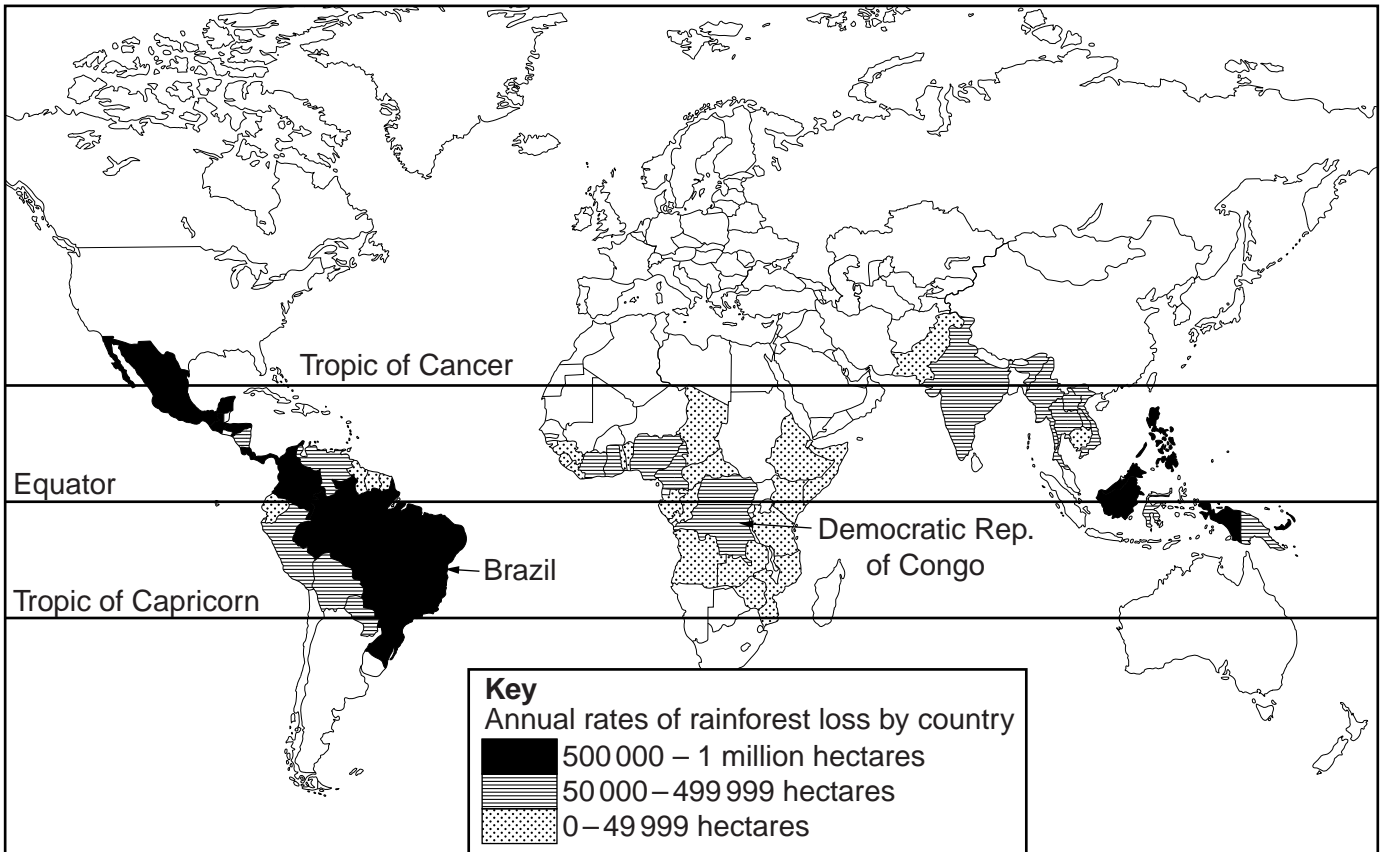


Fig. 5B

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

.....%

[1]

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

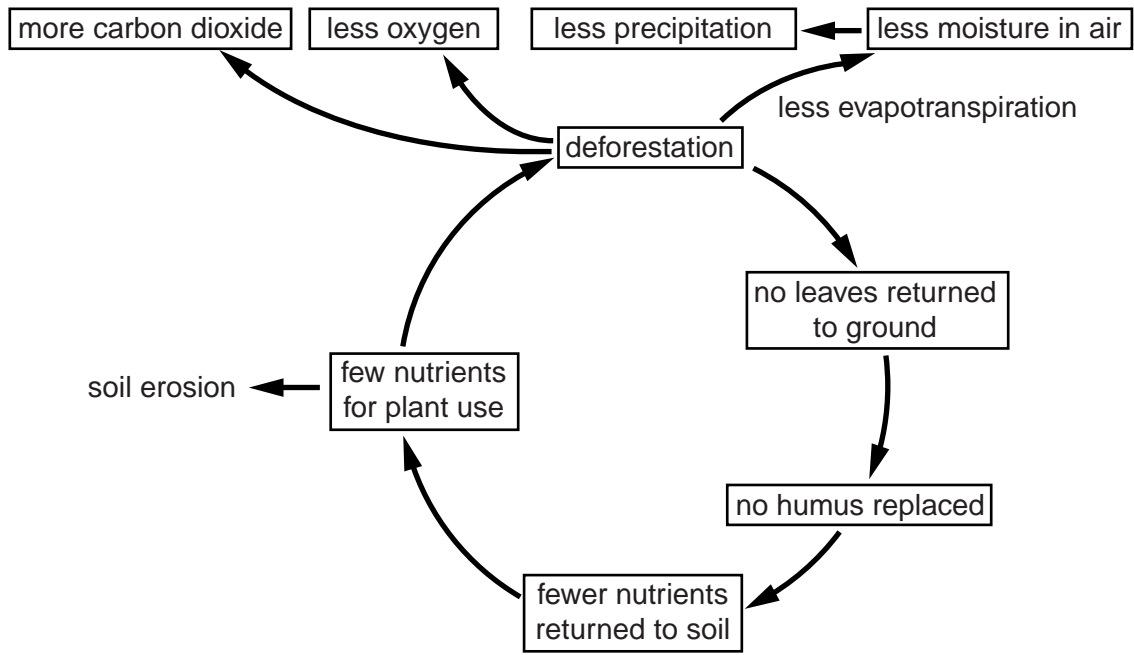


Fig. 6

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

- 1
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 - 2
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 - 3
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- [3]

Section C

Answer **one** question from this section.

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.

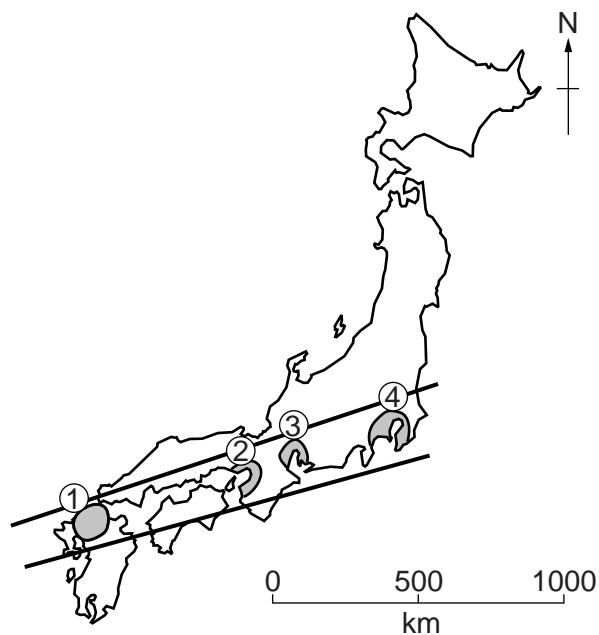
Key

Four main industrial zones

- ① Fukuoka
- ② Osaka-Kobe
- ③ Nagoya
- ④ Tokyo

== Pacific Belt

● urban area



(i) Name an industrial zone in the 'Pacific Belt' of Japan.

.....

(ii) Give **two** pieces of evidence from Fig. 7 which suggest that the 'Pacific Belt' is important for Japan's economy.

1

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2

..... [2]

(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.

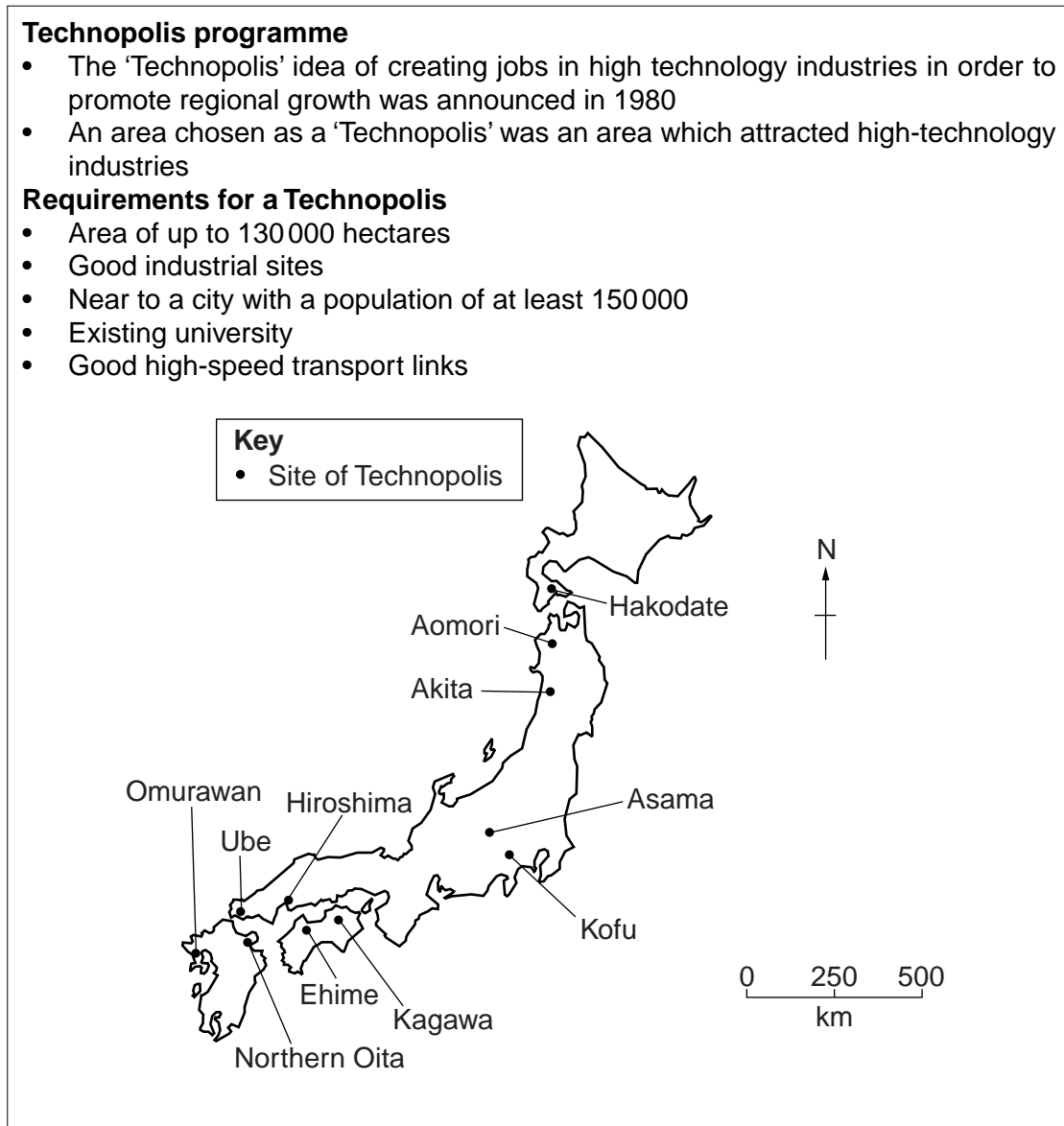
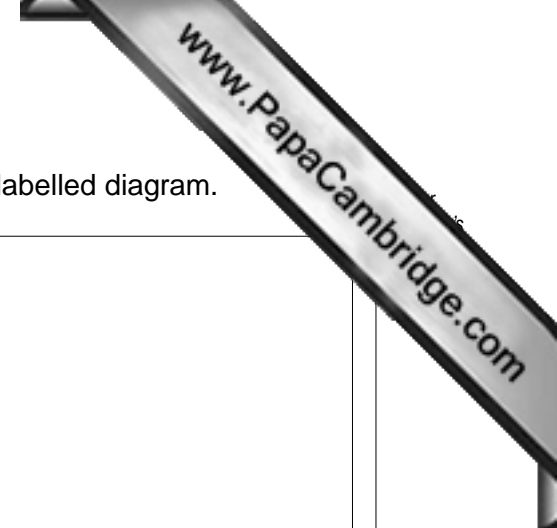


Fig. 8



(c) Explain the causes of global warming. You should include a labelled diagram.

A large, empty rectangular box with a thin black border, intended for the student to draw a labelled diagram.A series of horizontal dotted lines extending across the width of the page, providing space for the student to write their explanation.

[7]

[Total: 25 marks]

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.

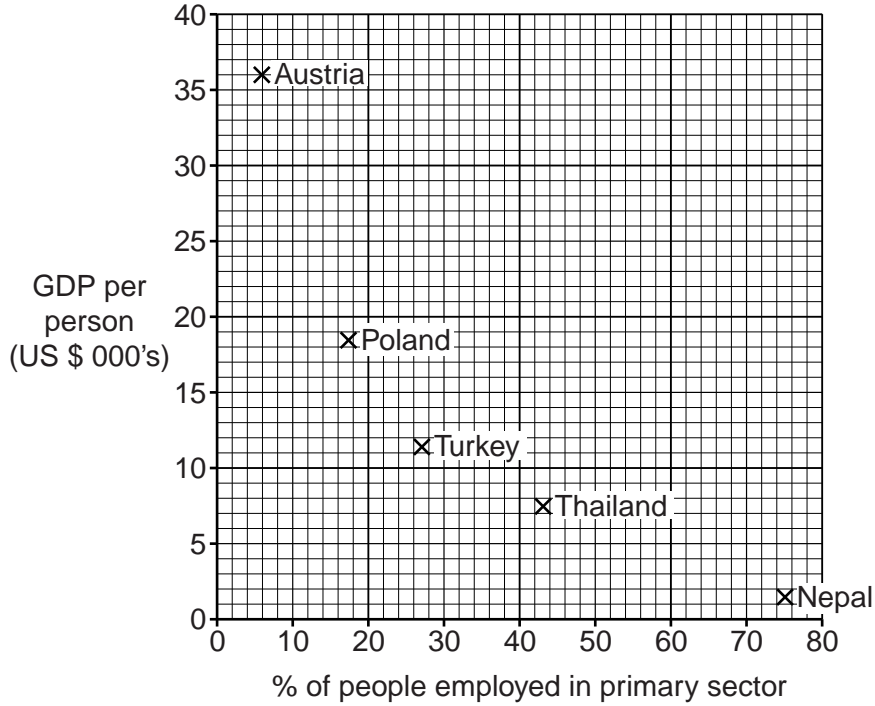


Fig. 9

- (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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.....[3]

(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.

1
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.....[3]

(ii) Explain how the infrastructure of a country changes as tourism develops.

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..... [5]

(c) For a named area which you have studied, describe the impacts of tourism on the natural environment.

Name of area

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..... [7]

[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.

Lined page for writing answers, consisting of 25 horizontal dotted lines.

Copyright Acknowledgements:

Question 1 Fig. 2
Question 5 Fig. 8
Photographs A – G

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