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CANDIDATE NAME

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4407627266

GEOGRAPHY **0460/12**

Paper 1 Geographical Themes **May/June 2025**

1 hour 45 minutes

You must answer on the question paper.

You will need: Insert (enclosed)
Calculator
Protractor
Ruler

INSTRUCTIONS

- Answer **three** questions in total, **one** from each section.
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen or correction fluid.
- Do **not** write on any bar codes.
- If additional space is needed, you should use the lined pages at the end of this booklet; the question number or numbers must be clearly shown.

INFORMATION

- The total mark for this paper is 75.
- The number of marks for each question or part question is shown in brackets [ ].
- The insert contains additional resources referred to in the questions.

LEDCs – Less Economically Developed Countries
MEDCs – More Economically Developed Countries

This document has **36** pages. Any blank pages are indicated.

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Section A

Answer **one** question from this section.

1 **(a)** Study Fig. 1.1 (Insert), information about population growth rates in 2021.

(i) How is population growth calculated?
Put the words from the box into the correct places in the formula.

birth rate	death rate	emigration	immigration

Population growth =

natural increase (..... minus .....) +/–

international migration (..... minus .....)

[1]

(ii) Using Fig. 1.1 **only**, state **two** differences between the population growth rates in Africa and South America.
Do **not** use statistics.

1 .....

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2 .....

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[2]

(iii) Put the following countries in rank order of their population growth rates.

China Mexico Niger Spain

..... high

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..... low

[3]

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(iv) The population is declining in some countries. Explain **two** problems which may be caused by population decline.

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(b) Study Fig. 1.2 (Insert), a photograph taken in a country with a high population growth rate.

(i) Suggest **three** different problems which the people living in the area shown in Fig. 1.2 may experience as a result of high rates of population growth.

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(ii) Explain how a government may attempt to **reduce** population growth.

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(c) Describe the benefits of migration to a named country you have studied.

Name of country .....

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2 **(a)** Study Fig. 2.1 (Insert), a photograph showing a rural settlement in Norway (an MEDC in Europe).

(i) What is meant by *rural settlement*?

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..... [1]

(ii) Suggest **two** low-order services which you would expect to find in a rural settlement such as the one shown in Fig. 2.1.

1 .....

2 .....

[2]

(iii) Explain why rural settlements such as the one shown in Fig. 2.1 only have low-order services.

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(iv) Suggest reasons for the growth of the settlement shown in Fig. 2.1.

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(b) Study Fig. 2.2, maps showing the settlement patterns in three areas, **X**, **Y** and **Z**.

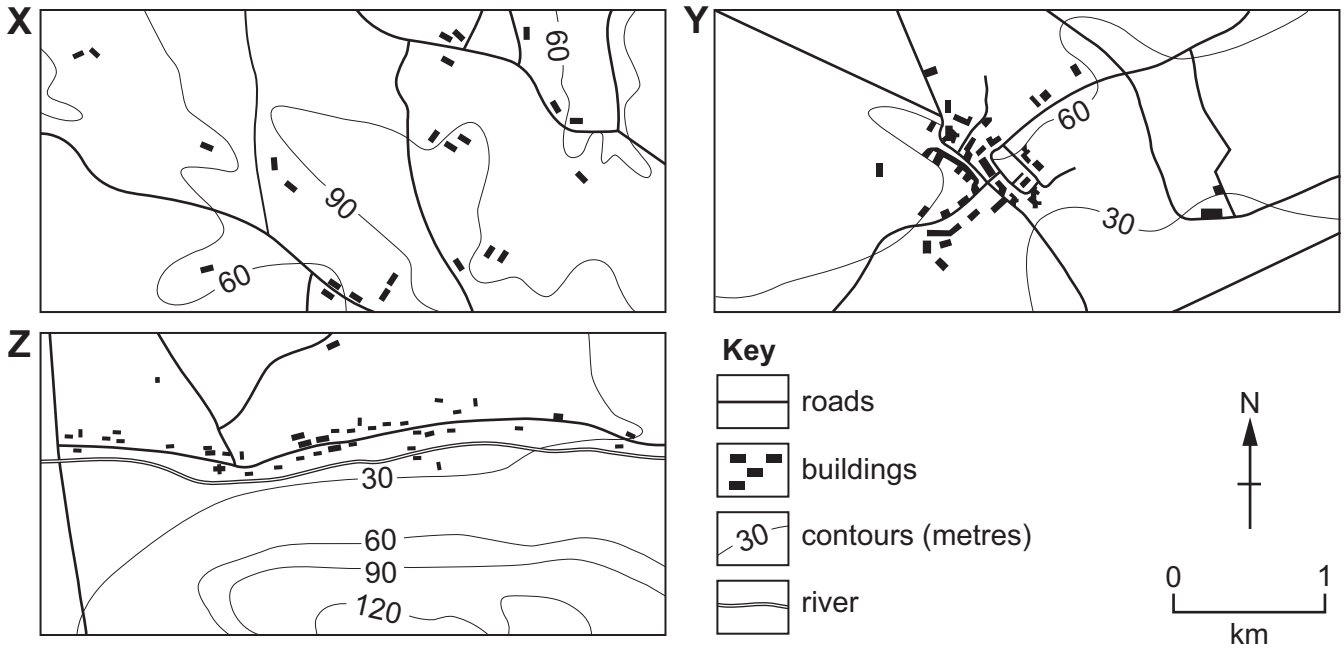


Fig. 2.2

(i) Using Fig. 2.2, compare the settlement patterns in areas **X** and **Y**.

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(ii) Name the settlement pattern in area **Z** shown in Fig. 2.2. Suggest reasons why this settlement pattern may have developed.

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(c) For a named urban area you have studied, describe the impacts of urban growth on the surrounding rural area.

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Section B

Answer **one** question from this section.

3 **(a)** Study Fig. 3.1 and Fig. 3.2.

Fig. 3.1 is a climate graph for Iquitos in the Amazon rainforest.
Fig. 3.2 is a diagram showing rainforest vegetation.

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Fig. 3.1

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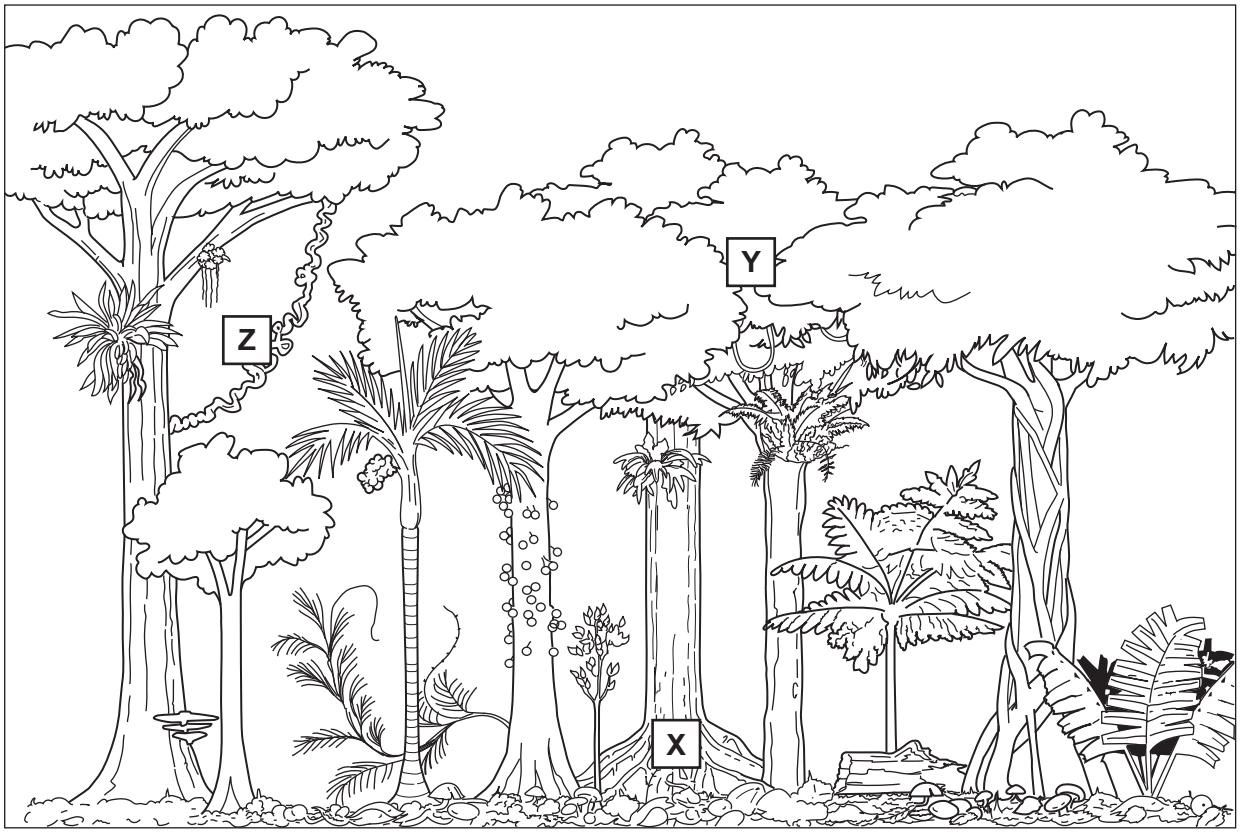


Fig. 3.2

(i) What is the average rainfall in Iquitos in March?

..... mm [1]

(ii) Calculate the annual range of temperature in Iquitos.
You should show your calculations.

= ..... °C

[2]

(iii) Identify the following features of the rainforest vegetation labelled in Fig. 3.2.

X .....

Y .....

Z .....

[3]

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(iv) Using information from Fig. 3.1 **only**, explain why there are large amounts of vegetation in a tropical rainforest as shown in Fig. 3.2.

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(b) Study Fig. 3.3, a graph showing information about deforestation of tropical rainforests in South America and Africa between 1995 and 2020.

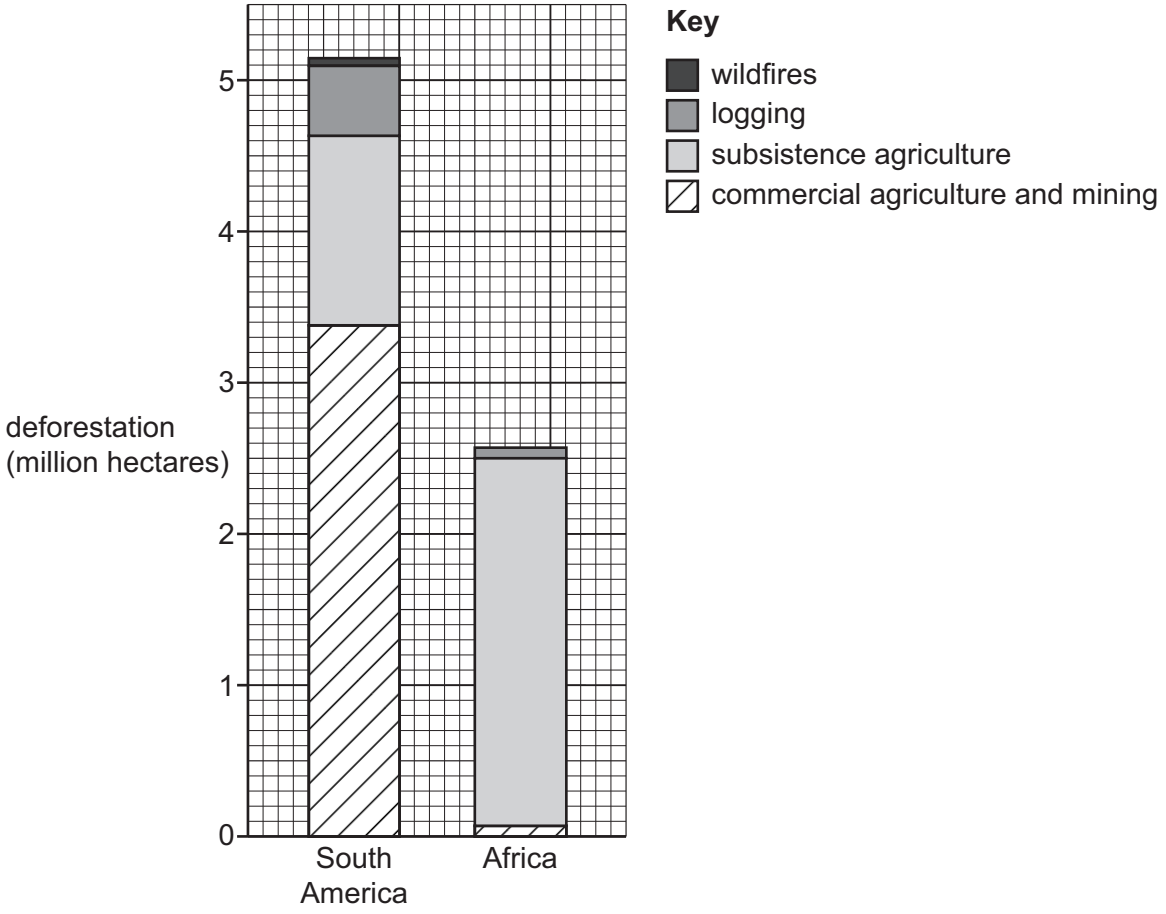


Fig. 3.3

(i) Using Fig. 3.3 **only**, compare the deforestation of tropical rainforests in South America and Africa.
Do **not** use statistics.

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(ii) Describe the impacts of deforestation on **people** who live in tropical rainforests.

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(c) For an area of tropical rainforest you have studied, describe the impacts of deforestation on the **local natural environment**.

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4 **(a)** Study Fig. 4.1, cross-sections of two different types of volcano.

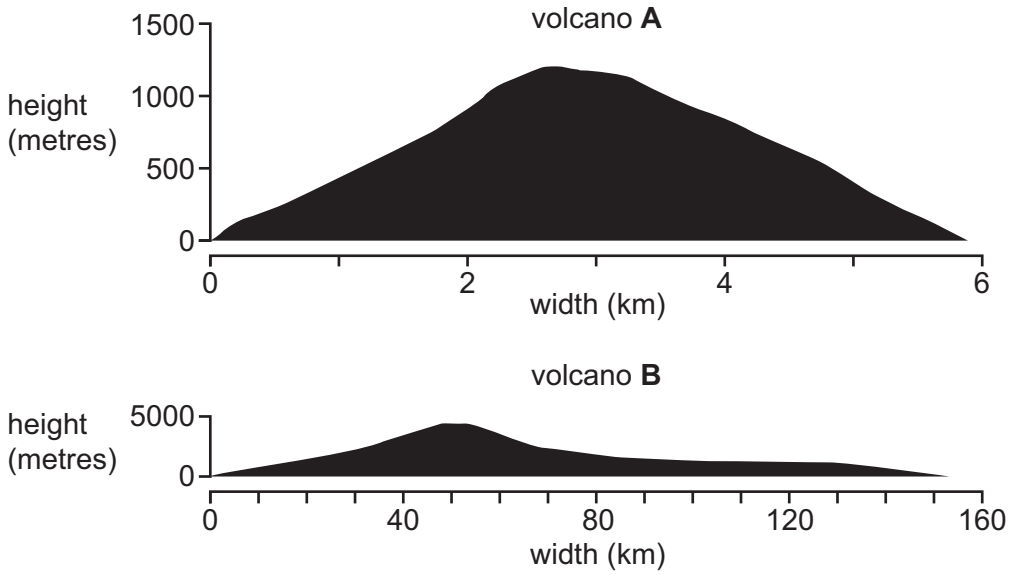


Fig. 4.1

(i) What type of volcano is shown by cross-section **B** in Fig. 4.1?

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(ii) Two features of a volcano are the vent and magma chamber. Define these terms.

vent

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magma chamber

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[2]

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(iii) Using Fig. 4.1, compare volcano **A** and volcano **B** using the following headings.

width .....

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height .....

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steepness .....

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[3]

(iv) Describe the benefits for people of living close to volcanoes.

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(b) Study Fig. 4.2, a map which shows the location of volcanoes in Iceland.

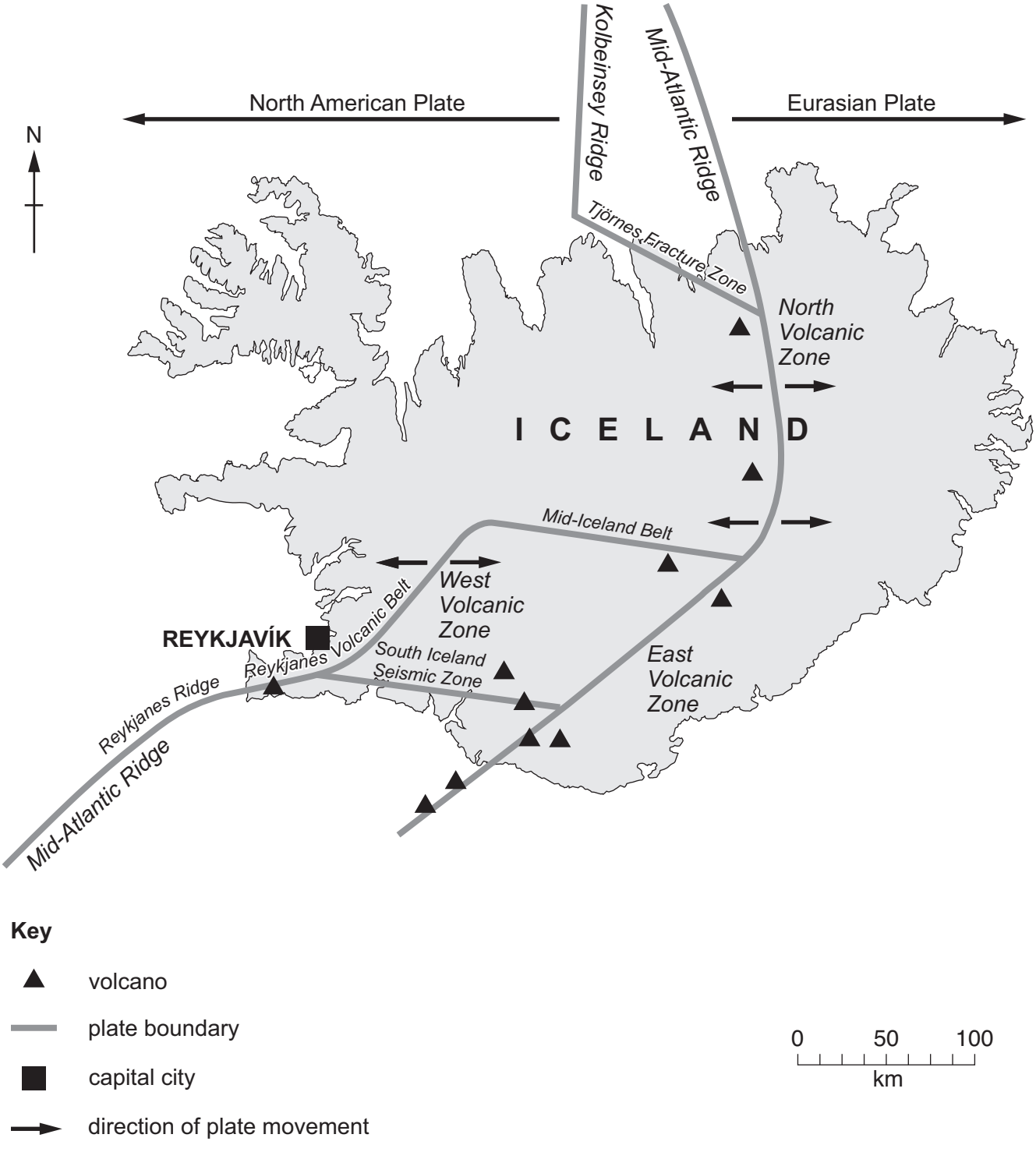


Fig. 4.2

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(i) Using Fig. 4.2, suggest reasons why there are active volcanoes in Iceland.

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(ii) Describe problems that can be caused by active volcanoes.

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(c) For a named example you have studied, describe the strategies that can be used to reduce the problems caused by volcanic eruptions.

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Section C

Answer **one** question from this section.

5 **(a)** Study Fig. 5.1, graphs showing the use of water for different purposes in Malawi, the USA and the UK.

Malawi is an LEDC.
The USA and the UK are MEDCs.

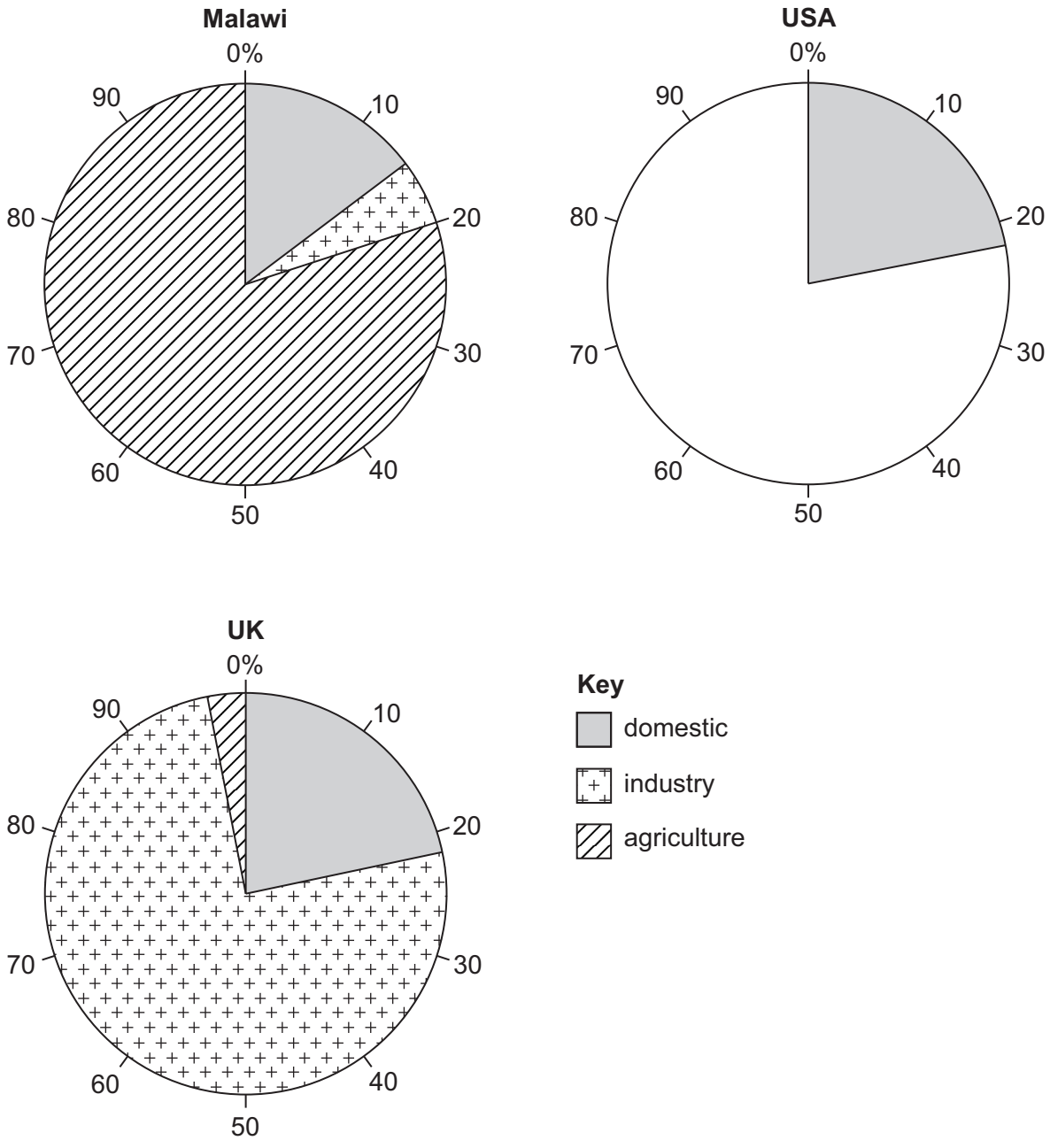


Fig. 5.1

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(i) What percentage of water was used for agriculture in Malawi?

.....% [1]

(ii) Complete the pie chart for the USA by using the following information.

Industry 10%

Agriculture 68%

[2]

(iii) Compare the use of water in Malawi and the UK.
Do **not** use statistics.

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(iv) Suggest reasons why few people have access to clean water in rural Malawi.

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(b) Study Figs. 5.2, 5.3 and 5.4 (Insert), photographs of different methods of water supply.

(i) Describe each of the methods of water supply shown in Figs. 5.2, 5.3 and 5.4.

Fig. 5.2 .....

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Fig. 5.3 .....

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Fig. 5.4 .....

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[3]

(ii) Explain why dams and reservoirs are used in many countries to supply water.

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(c) For a named country you have studied, explain how **energy** is supplied.

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6 **(a)** Study Fig. 6.1, a graph showing information about the employment structure of selected countries.

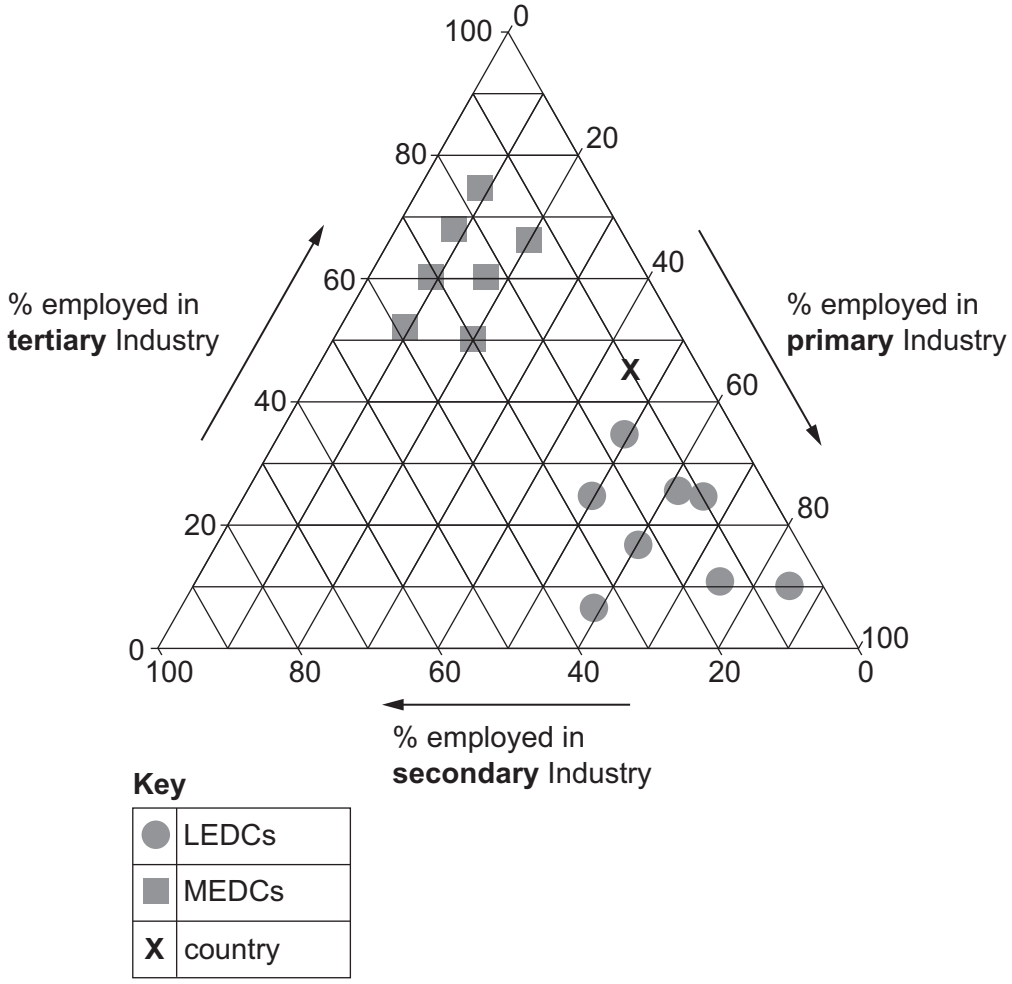


Fig. 6.1

(i) Give **one** example of employment in **primary** industry.

..... [1]

(ii) State the percentage employed in the **secondary** and the **tertiary** industry in country **X**.

secondary industry .....%

tertiary industry .....%

[2]

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(iii) Using Fig. 6.1, compare the employment structure of LEDCs and MEDCs.
Do **not** use statistics.

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(iv) Suggest **two** different ways in which the employment structure of country **X** is likely to change in the future. Give **one** reason for each of the changes you suggest.

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(b) Study Fig. 6.2, scatter graphs showing the relationship between GNP per person and three other development indicators in selected countries.

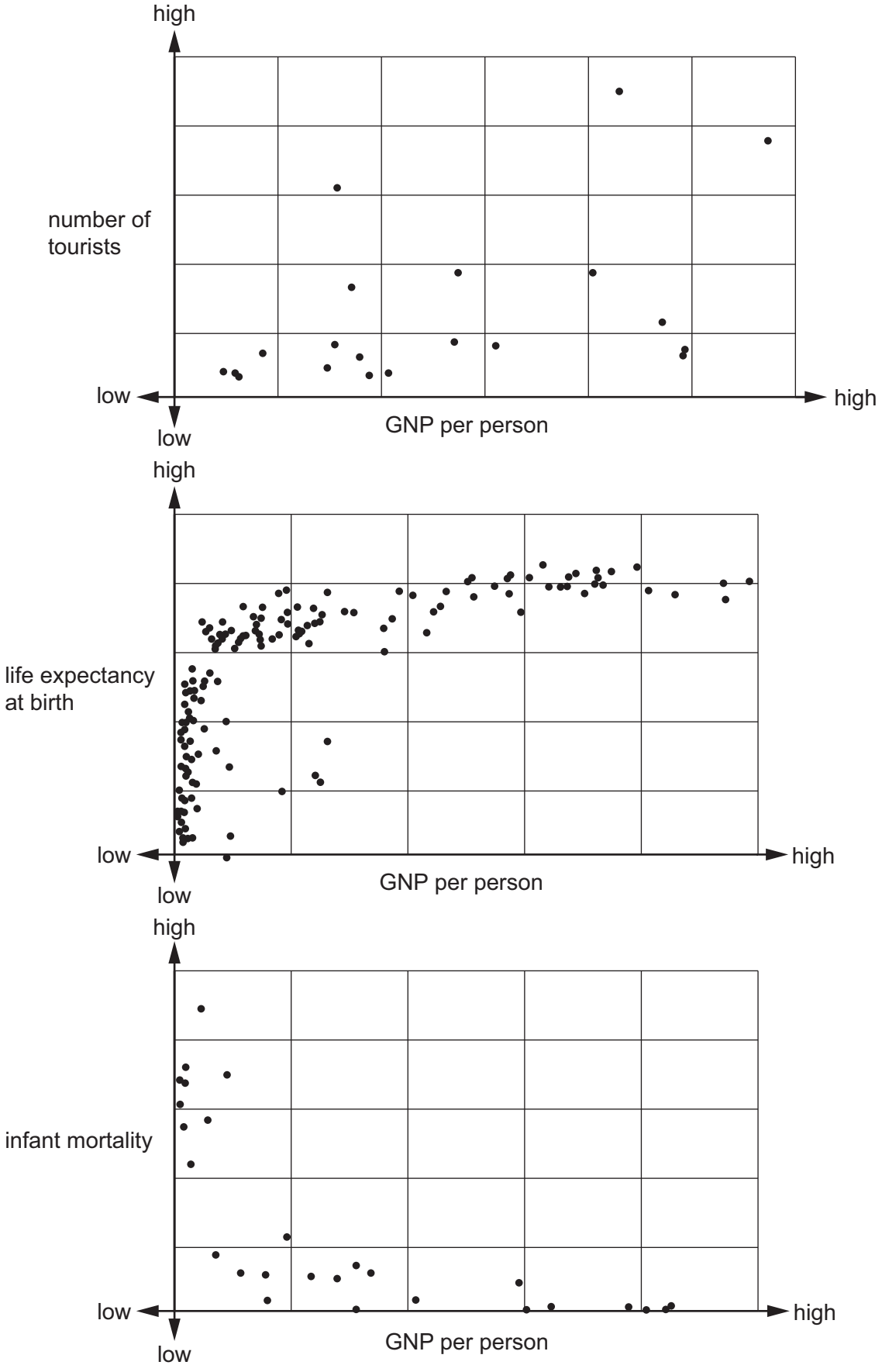


Fig. 6.2

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(i) Using Fig. 6.2 **only**, state the development indicator which has

a positive relationship with GNP per person

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a negative relationship with GNP per person

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no clear relationship with GNP per person.

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[3]

(ii) Explain why the Human Development Index (HDI) is a good method of measuring development.

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(c) Describe the features of a named transnational corporation (TNC) you have studied.

Name of transnational corporation (TNC) .....

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