GradeMax

* 0000800000001 *

Cambridge Assessment International Education

Cambridge IGCSE™

CANDIDATE NAME

CENTRE NUMBER | | | | | |

CANDIDATE NUMBER | | | | |

* 4 4 0 7 6 2 7 2 6 6 *

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) Ruler
Calculator
Protractor

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.

DC (SL/JG) 345215/4
© UCLES 2025

[Turn over

GradeMax

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 .....

.....

2 .....

.....

[2]

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

China Mexico Niger Spain

..... high

.....

.....

..... low

[3]

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

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

1 .....

.....

.....

.....

2 .....

.....

.....

.....

[4]

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

(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.

1 .....

.....

2 .....

.....

3 .....

.....

[3]

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

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [5]

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

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

Name of country .....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [7]

[Total: 25]

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

BLANK PAGE

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

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*?

.....

..... [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.

.....

.....

.....

.....

.....

..... [3]

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

.....

.....

.....

.....

.....

.....

.....

..... [4]

GradeMax

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

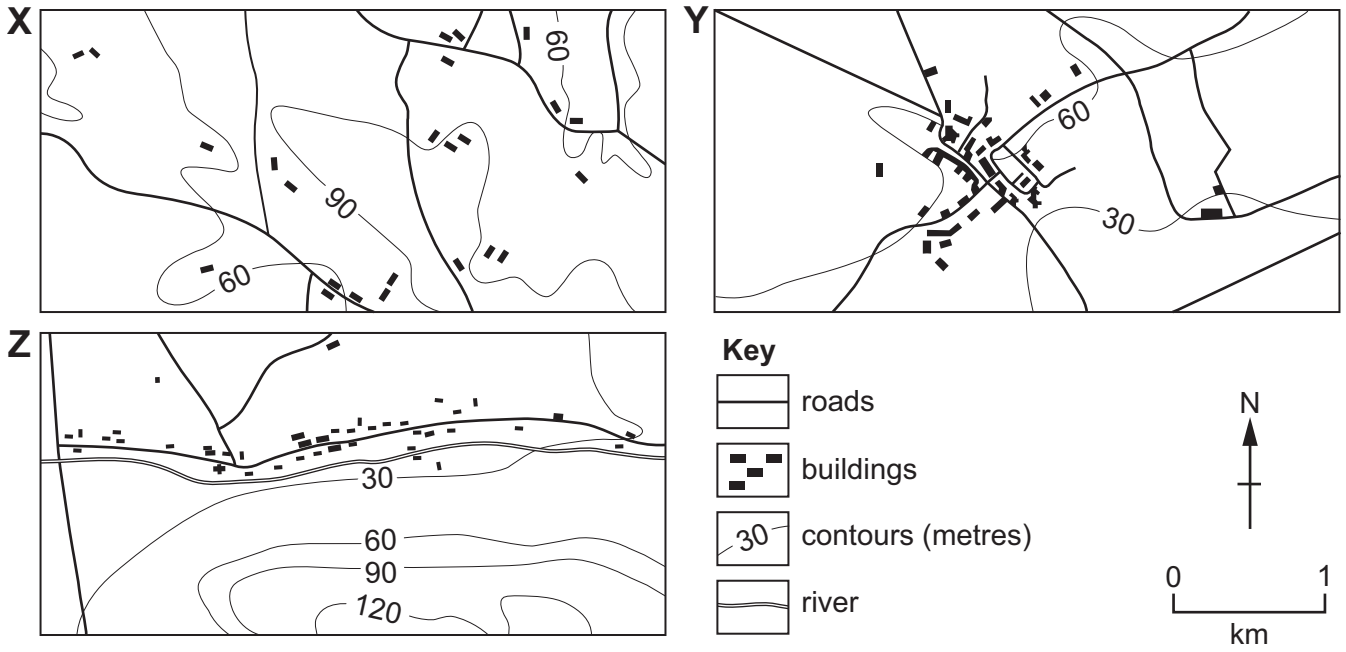


Fig. 2.2

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

.....

.....

.....

.....

.....

..... [3]

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

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

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [5]

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

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

Name of urban area .....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [7]

[Total: 25]

DO NOT WRITE IN THIS MARGIN

DO NOT WRITE IN THIS MARGIN

DO NOT WRITE IN THIS MARGIN

DO NOT WRITE IN THIS MARGIN

DO NOT WRITE IN THIS MARGIN

GradeMax

BLANK PAGE

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

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.

Content removed due to copyright restrictions.

Fig. 3.1

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

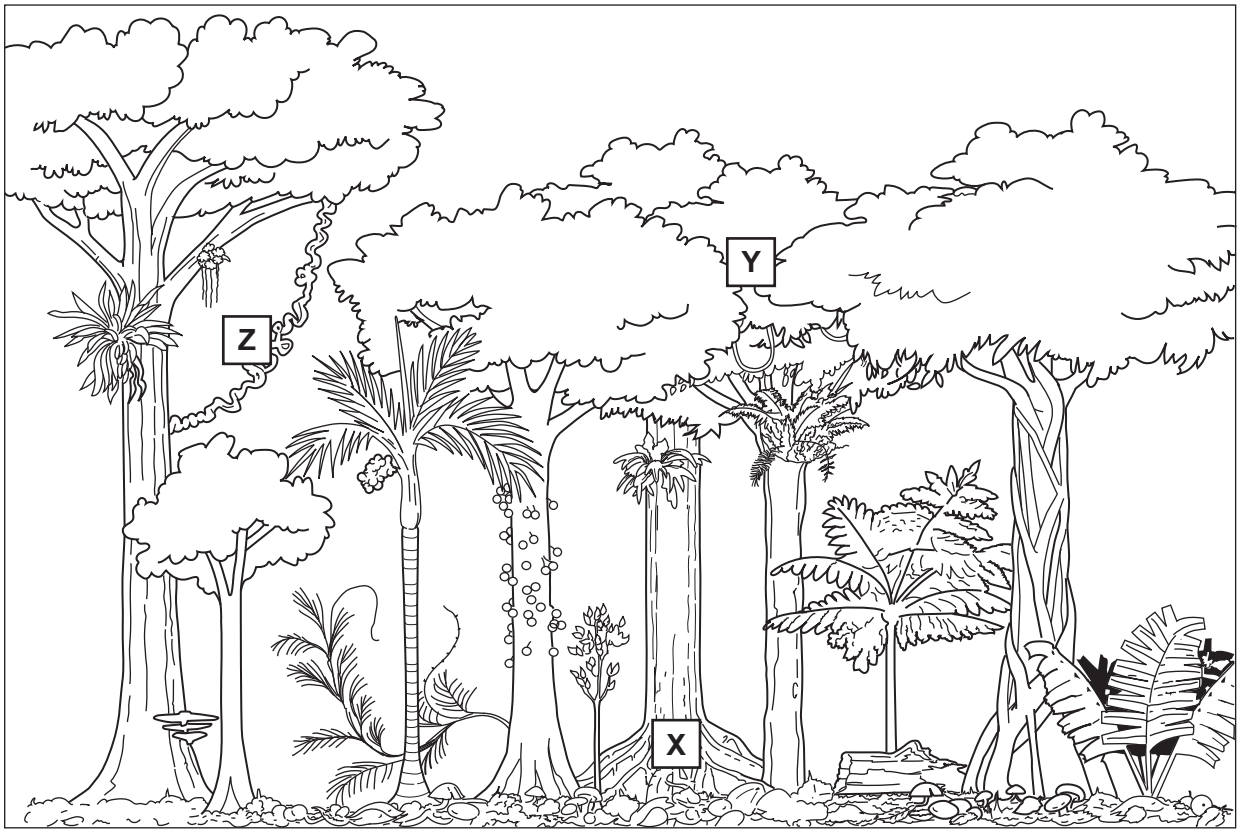


Fig. 3.2

(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]

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

(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.

.....

.....

.....

.....

.....

.....

.....

..... [4]

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

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

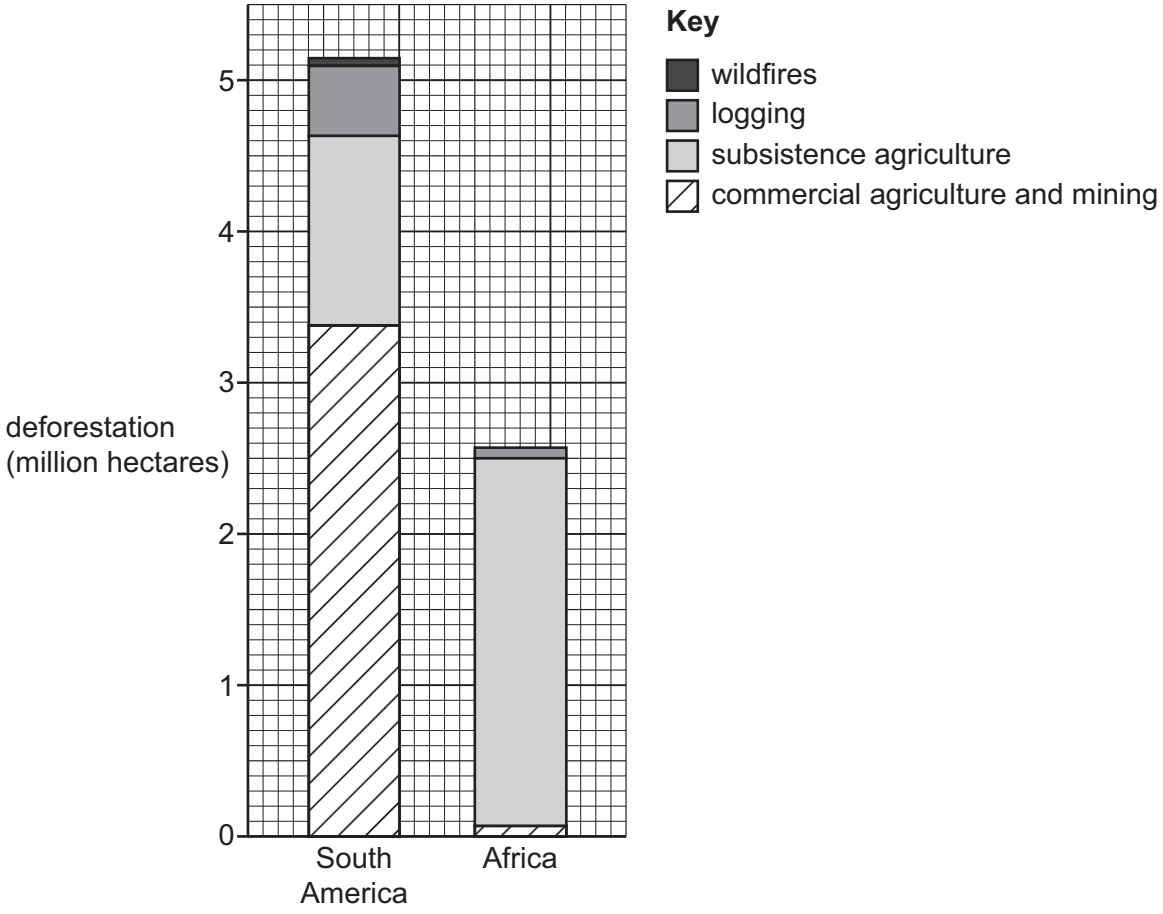


Fig. 3.3

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

.....

.....

.....

.....

.....

..... [3]

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

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

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [5]

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

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

Name of area .....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [7]

[Total: 25]

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

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

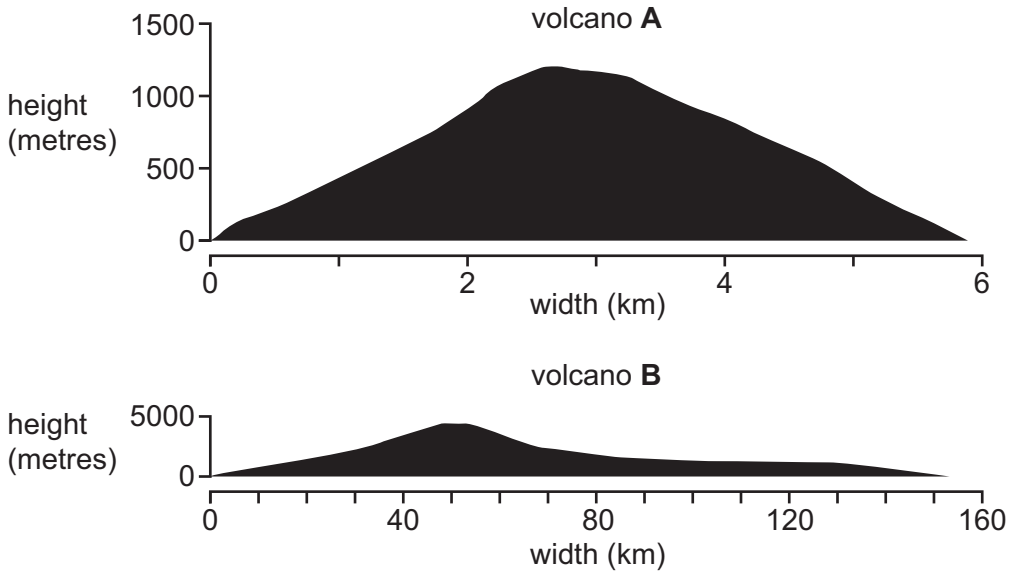


Fig. 4.1

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

.....

[1]

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

vent

.....

.....

magma chamber

.....

.....

[2]

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

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

width .....

.....

height .....

.....

steepness .....

.....

[3]

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

.....

.....

.....

.....

.....

.....

.....

..... [4]

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

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

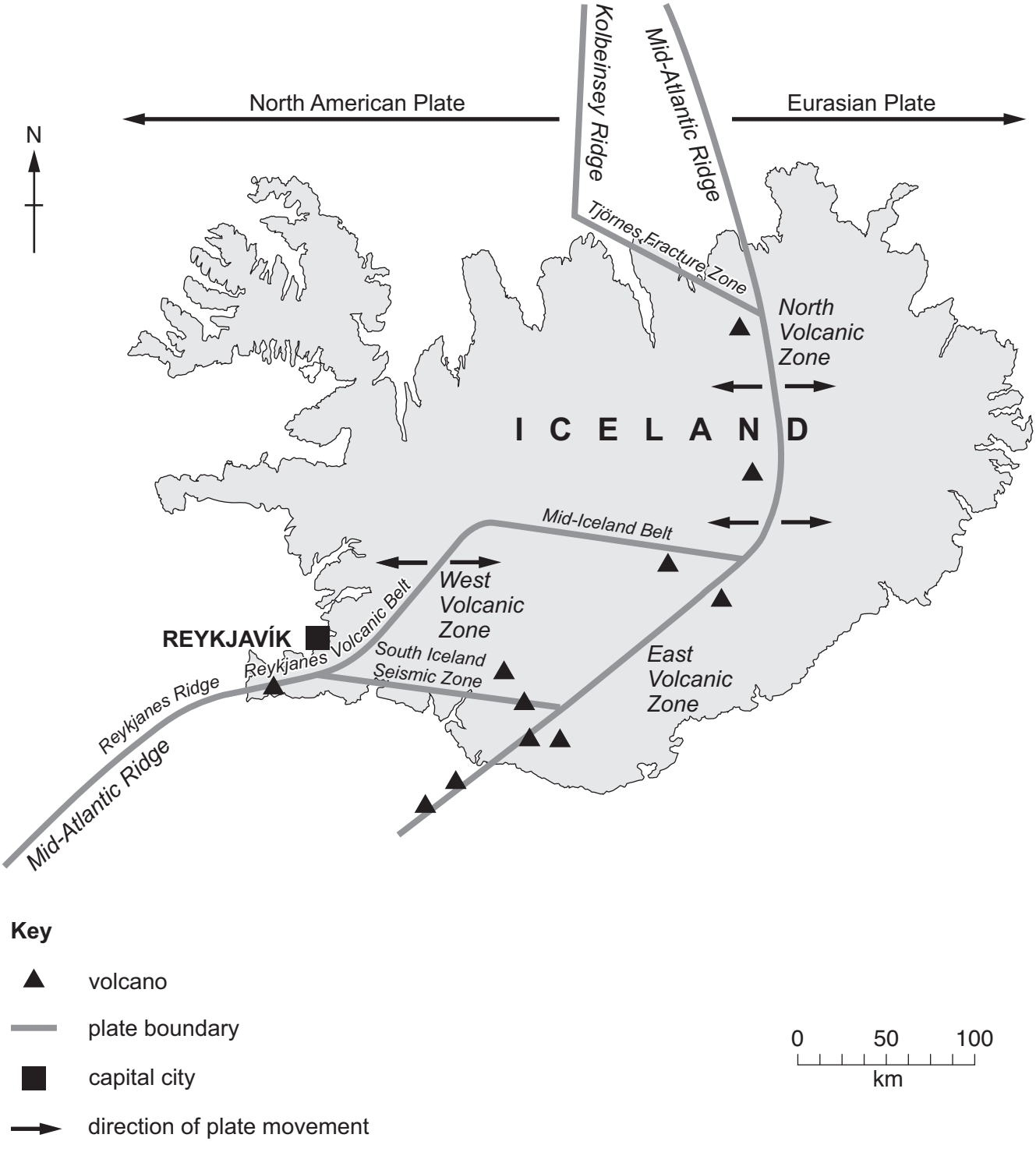


Fig. 4.2

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

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

.....

.....

.....

.....

.....

..... [3]

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

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [5]

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

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

Name of example .....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [7]

[Total: 25]

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

BLANK PAGE

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

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.

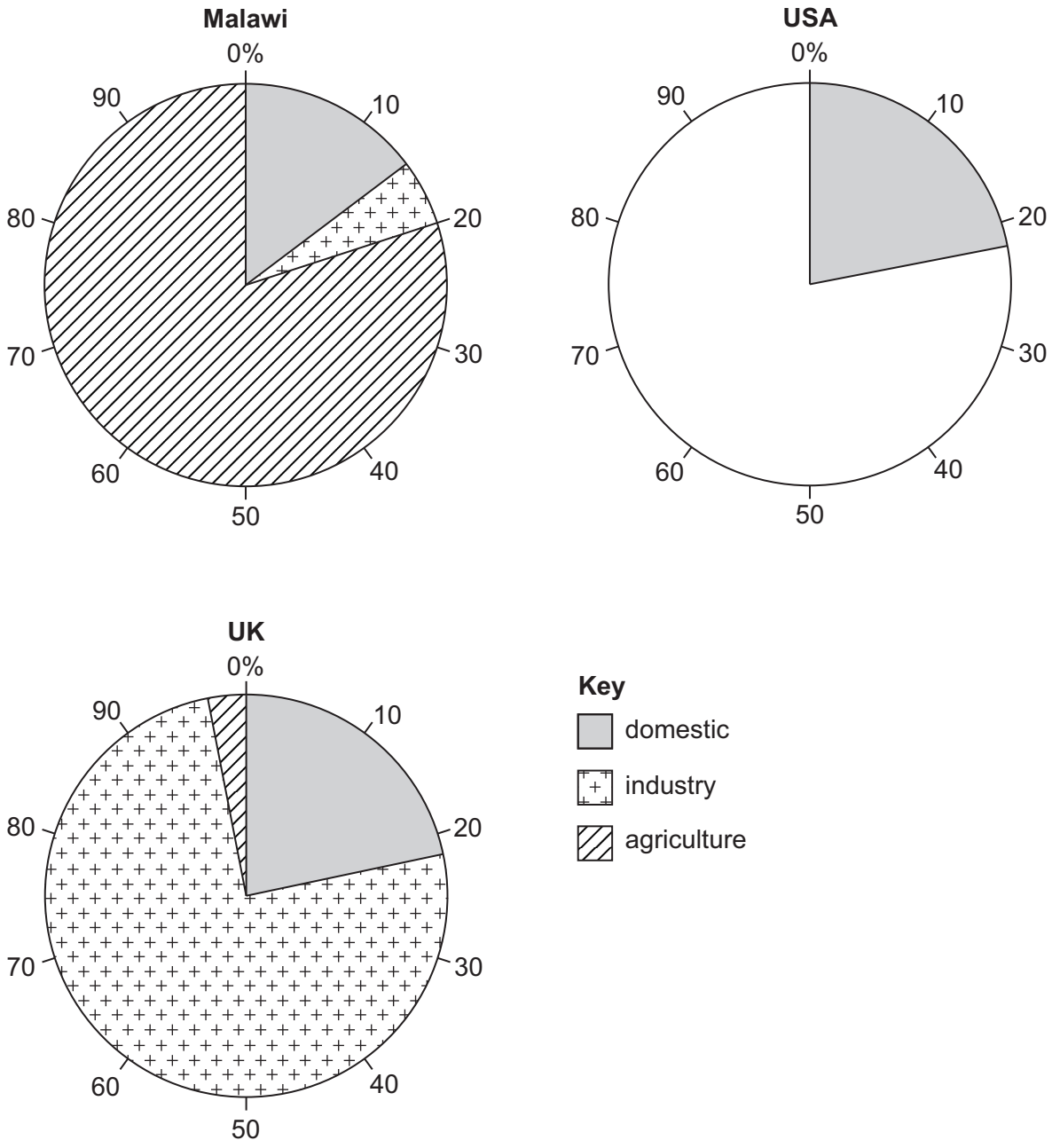


Fig. 5.1

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

(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.

.....

.....

.....

.....

.....

..... [3]

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

.....

.....

.....

.....

.....

.....

.....

..... [4]

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

(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 .....

.....

Fig. 5.3 .....

.....

Fig. 5.4 .....

.....

[3]

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

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [5]

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

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

Name of country .....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [7]

[Total: 25]

GradeMax

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

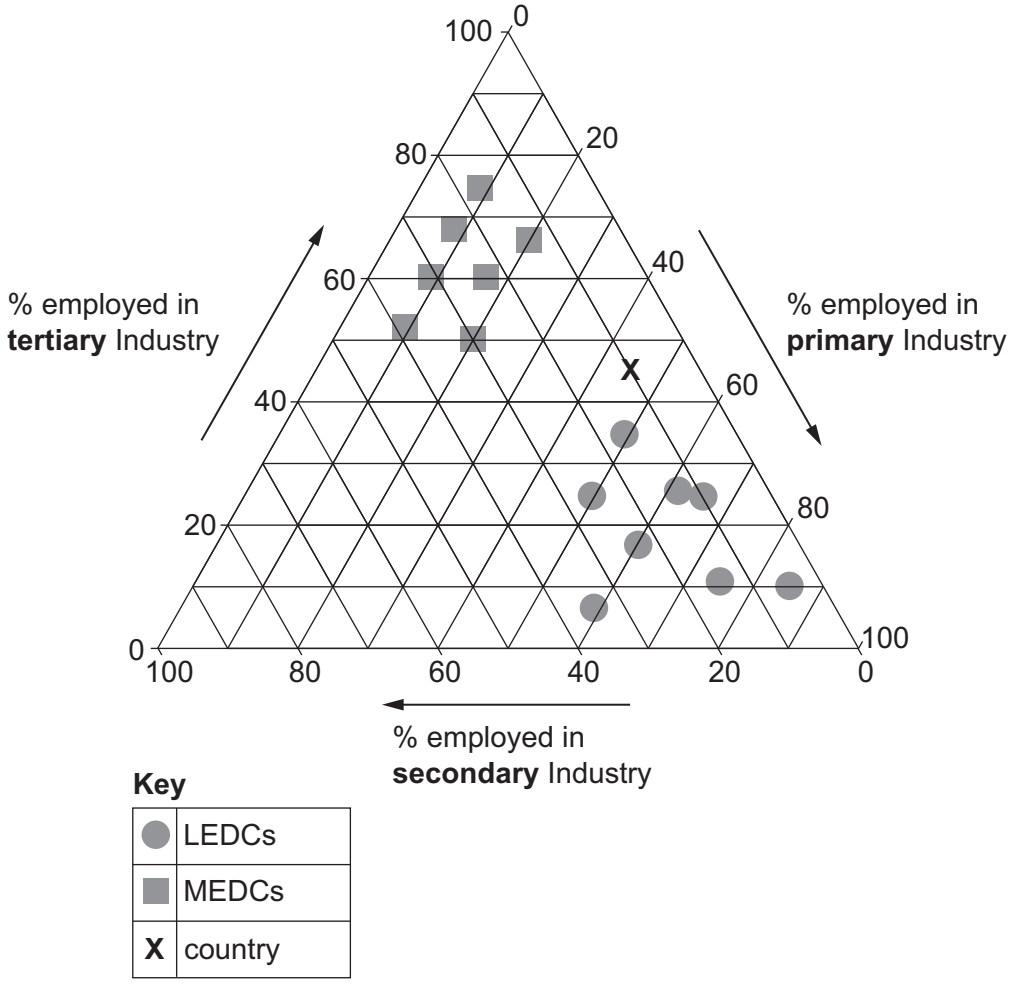


Fig. 6.1

(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]

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

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

.....

.....

.....

.....

.....

..... [3]

(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.

1 .....

.....

.....

.....

2 .....

.....

.....

.....

[4]

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

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

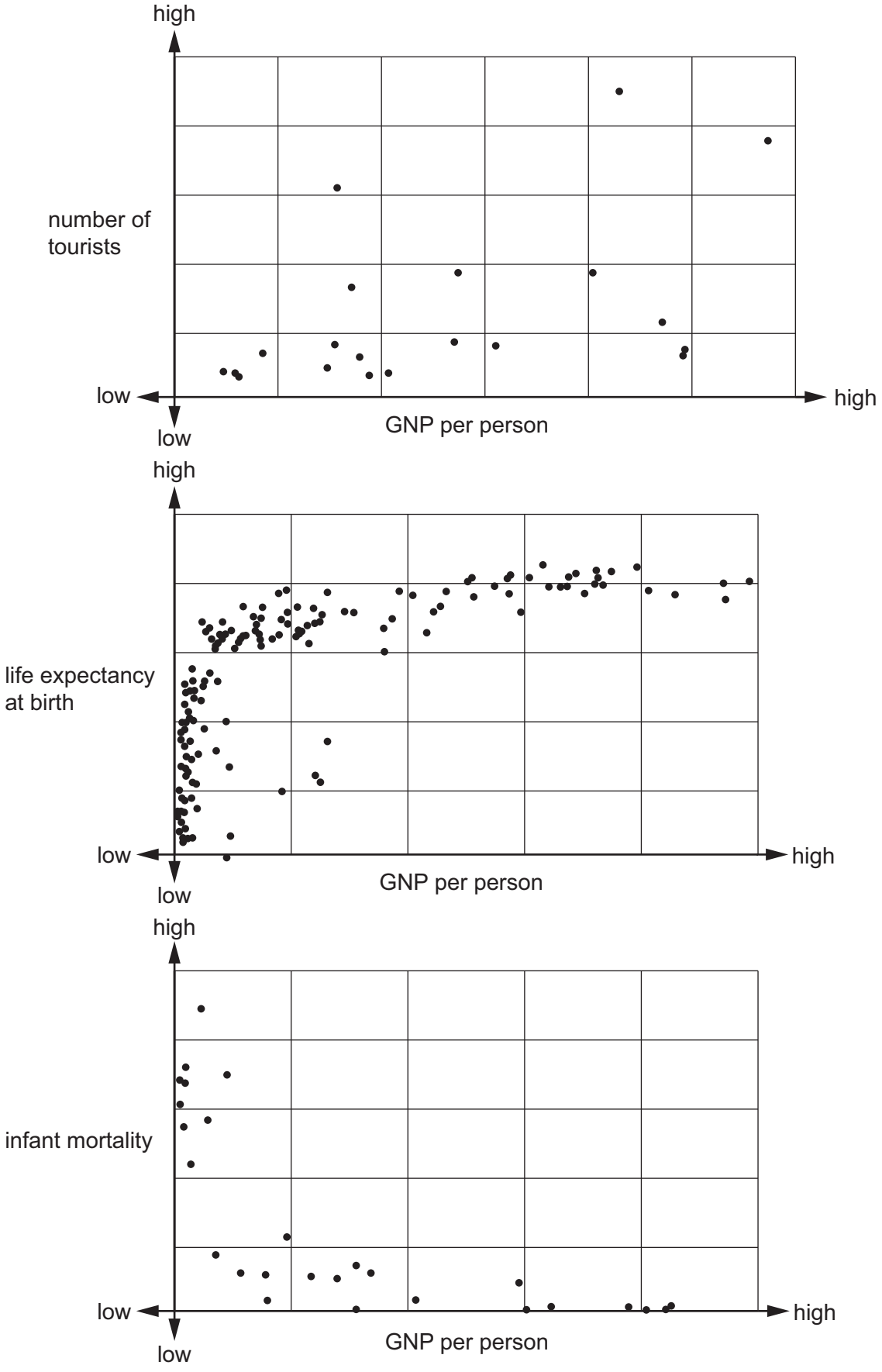


Fig. 6.2

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

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

a positive relationship with GNP per person

.....

a negative relationship with GNP per person

.....

no clear relationship with GNP per person.

.....

[3]

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

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [5]

GradeMax

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

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

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [7]

[Total: 25]

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

Additional pages

If you use the following pages to complete the answer to any question, the question number must be clearly shown.

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

GradeMax

BLANK PAGE

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

The boundaries and names shown, the designations used and the presentation of material on any maps contained in this question paper/insert do not imply official endorsement or acceptance by Cambridge Assessment International Education concerning the legal status of any country, territory, or area or any of its authorities, or of the delimitation of its frontiers or boundaries.

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced online in the Cambridge Assessment International Education Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download at www.cambridgeinternational.org after the live examination series.

Cambridge Assessment International Education is part of Cambridge Assessment. Cambridge Assessment is the brand name of the University of Cambridge Local Examinations Syndicate (UCLES), which is a department of the University of Cambridge.

© UCLES 2025