Notice of changes

For summer 2022, we introduced optionality for 8035/2 Paper 2: Challenges in the human environment.

This paper featured changes to Section B The changing economic world and Section C The challenge of resource management.

Section B featured the replacement of a 9 mark question with 6 mark question.

Section C featured the additional 5 marks.

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Other Names _____

Centre Number _____

Candidate Number _____

Candidate Signature _____

I declare this is my own work.

GCSE
GEOGRAPHY

8035/2

Paper 2   Challenges in the Human Environment

Time allowed: 1 hour 15 minutes

MATERIALS
For this paper you must have:
- **the insert (enclosed)**
- **a pencil**
- **a rubber**
- **a ruler.**
You may use a calculator.

At the top of the page, write your surname and other names, your centre number, your candidate number and add your signature.

[Turn over]

INSTRUCTIONS

- **Use black ink or black ball-point pen.**

- **Answer ALL questions in Section A.**

- **Answer EITHER Section B OR Section C.**

- **If you choose Section B answer ALL questions.**

- **If you choose Section C answer Question 3 and EITHER Question 4 OR Question 5 OR Question 6.**

- **You must answer the questions in the spaces provided. Do not write on blank pages.**

- **If you need additional extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).**

- **Do all rough work in this book. Cross through any work you do not want to be marked.**

INFORMATION

- **The marks for questions are shown in brackets.**

- **The total number of marks available for this paper is 63.**

- **Spelling, punctuation, grammar and specialist terminology will be assessed in Question 01.10.**

- **HIC is a higher income country.**

- **LIC is a lower income country.**

- **NEE is a newly emerging economy.**

DO NOT TURN OVER UNTIL TOLD TO DO SO

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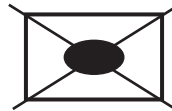For the multiple-choice questions, shade the circle next to the correct answer.
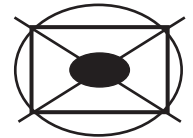
CORRECT METHOD

WRONG METHODS

If you want to change your answer you must cross out your original answer as shown.

If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown.

[Turn over]

0 5

SECTION A   Urban issues and challenges

Answer ALL questions in this section.

QUESTION 1   Urban issues and challenges

Study FIGURE 1, on pages 2 and 3 of the insert, a world map showing the rate of growth for some major cities, measured in people per hour.

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Calculate the mean rate of growth per hour for the Asian cities shown in FIGURE 1.

Answer to the nearest whole number. [2 marks]

Show your working

Answer = _____ people per hour

0 1 . 2

Outline ONE reason for the slower rates of growth in HIC cities. [2 marks]

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0 1 . 3

Give ONE way in which a major city in an LIC/NEE is regionally important. [1 mark]

Name of city _____

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Regional importance _____

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[Turn over]

Study FIGURE 2, on page 4 of the insert, a newspaper extract about urban change in sub-Saharan Africa.

| 0 | 1 | . | 4 |

Explain how urban planning is improving quality of life for the urban poor.

Use FIGURE 2 and an LIC/NEE example you have studied. [6 marks]

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Study FIGURE 3, on page 5 of the insert, a photograph and factfile about transport improvements in Utrecht, a city in the Netherlands.

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Suggest how developments such as this can help urban areas to become more sustainable.

Use FIGURE 3 and your own understanding. [4 marks]

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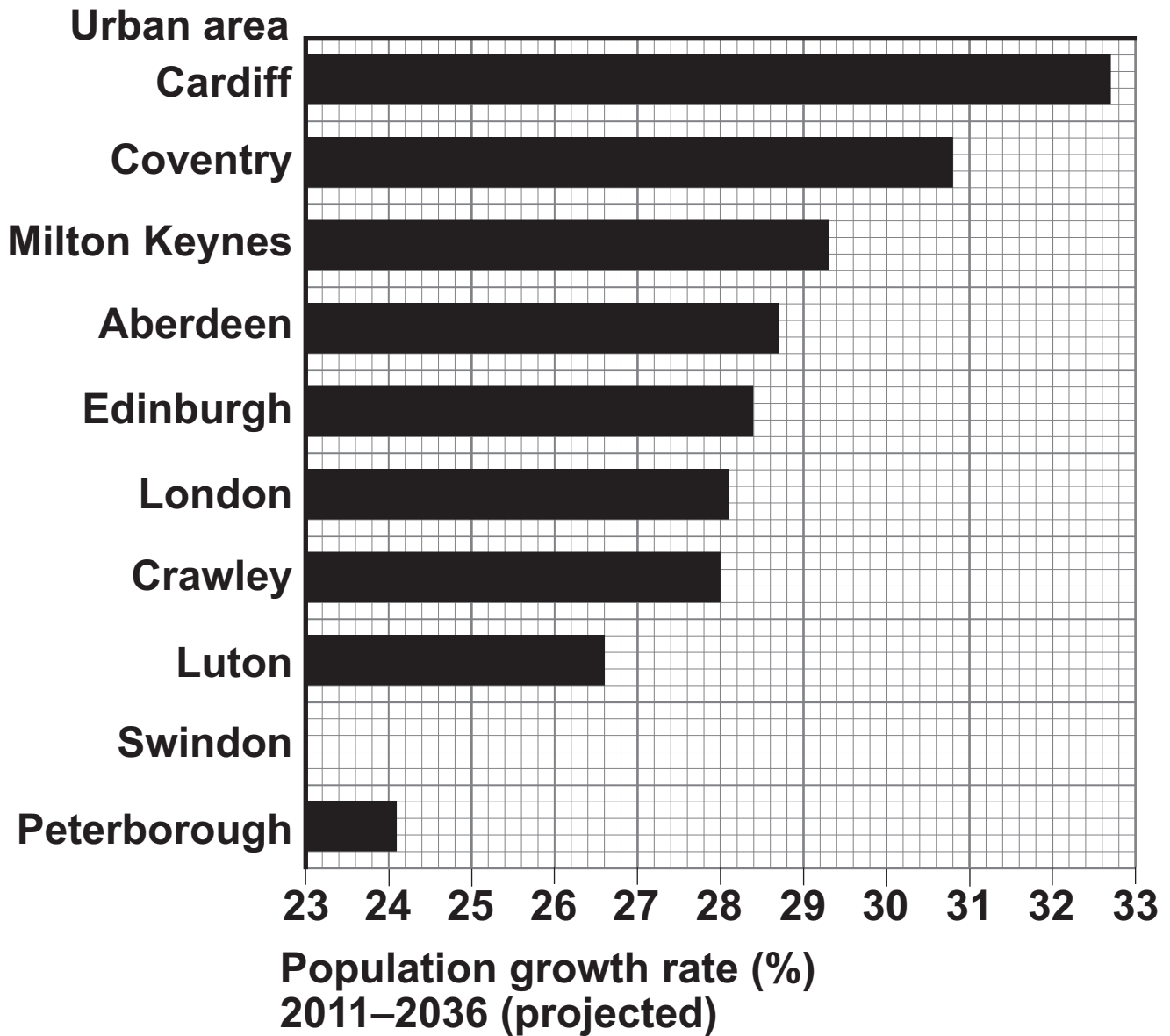_____

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[Turn over]

Study FIGURE 4, below, a graph showing the 10 UK urban areas with the highest population growth rate (%), 2011–2036 (projected).

FIGURE 4

Population growth rate (%)
2011–2036 (projected)

0 1 . 6

Complete FIGURE 4 using the following data. [1 mark]

CITY	Population growth rate (%) 2011–2036 (projected)
Swindon	26.5

0 1 . 7

Calculate the range of population growth rate (%), 2011–2036 (projected) for the urban areas shown in FIGURE 4.

Shade ONE circle only. [1 mark]

⬭ **A   8.0%**

⬭ **B   8.3%**

⬭ **C   8.6%**

⬭ **D   8.9%**

[Turn over]

Study **FIGURE 5**, on pages 6 and 7 of the insert, a map showing the 10 highest and 10 lowest UK urban areas for population growth rate (%), 2011–2036 (projected).

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Compare the distribution of the 10 highest and 10 lowest urban areas shown in FIGURE 5. [2 marks]

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0 1 . 9

Outline how international migration has affected a UK city you have studied. [2 marks]

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Assess the challenges created by urban change in a UK city you have studied. [9 marks] [+ 3 SPaG marks]

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[End of Section A] [Turn over for Section B]
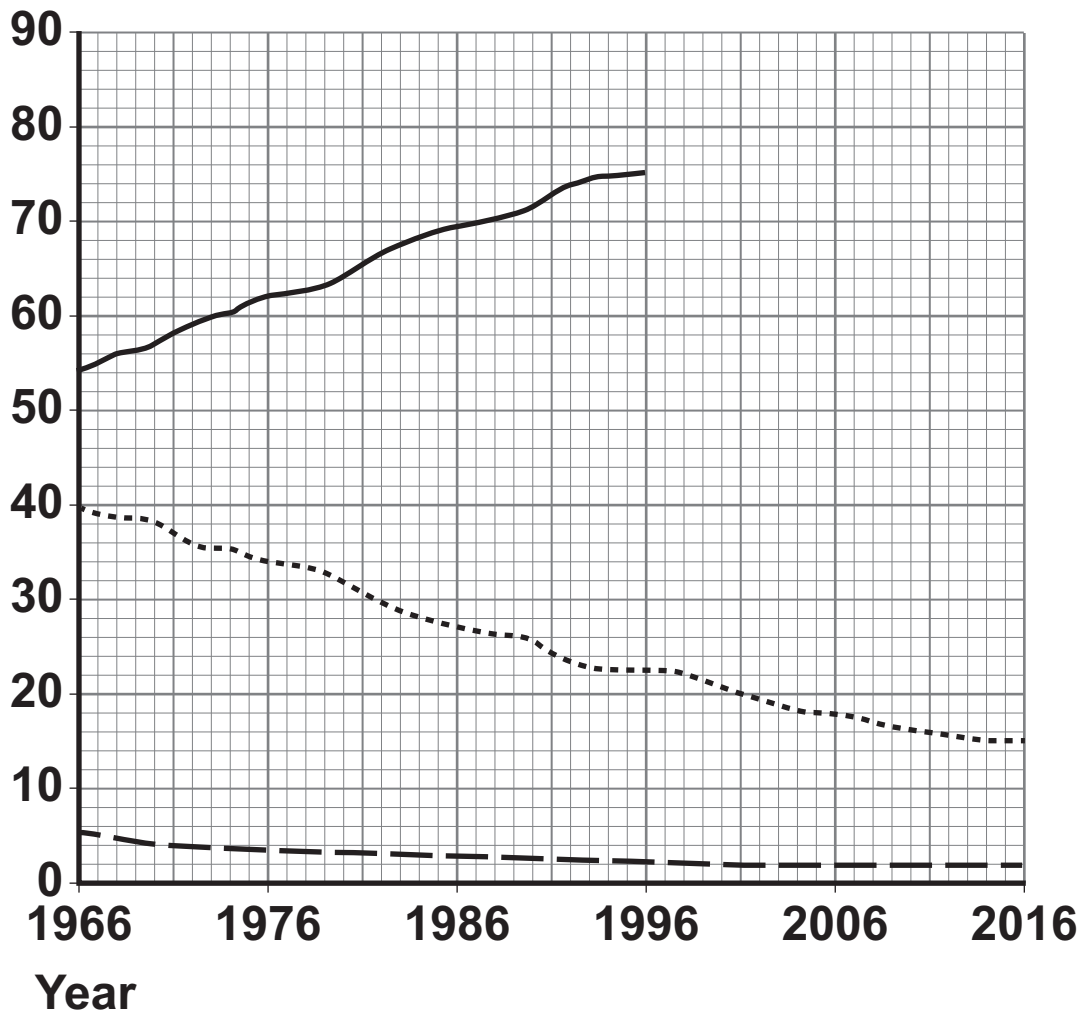
Answer EITHER Section B OR Section C.

SECTION B   The changing economic world

If you choose Section B answer ALL questions in this section.

QUESTION 2   The changing economic world

FIGURE 6

Employment in different industrial sectors (%)

KEY
— — Primary industry
······ Secondary industry
—— Service industry

Study FIGURE 6, on page 18, a graph showing the percentage of employment in different industrial sectors in the UK.

| 0 | 2 | . | 1 |

Complete FIGURE 6 using the following data. [2 marks]

YEAR	% employment in service industry
2006	81
2016	84

| 0 | 2 | . | 2 |

Calculate the difference between employment (%) in primary industry and secondary industry in 2016.

Shade ONE circle only. [1 mark]

☐ A   13%

☐ B   17%

☐ C   69%

☐ D   82%

[Turn over]

`0 2 . 3`

Which ONE of the following describes the change in employment in secondary industry from 1966 to 2016?

Shade ONE circle only. [1 mark]

◯ **A   It halves**

◯ **B   It more than halves**

◯ **C   It stays the same**

◯ **D   It doubles**

`0 2 . 4`

Outline ONE OR MORE reasons for the decline of traditional industries in the UK. [3 marks]

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Study FIGURE 7, below, showing newspaper headlines.

FIGURE 7

'Does leaving the EU mean taking back control of our money, laws and borders?'

'Can the Commonwealth provide the trading future for the UK?'

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Suggest how changing economic and political links may affect the UK's place in the wider world.

Use FIGURE 7 and your own understanding. [6 marks]

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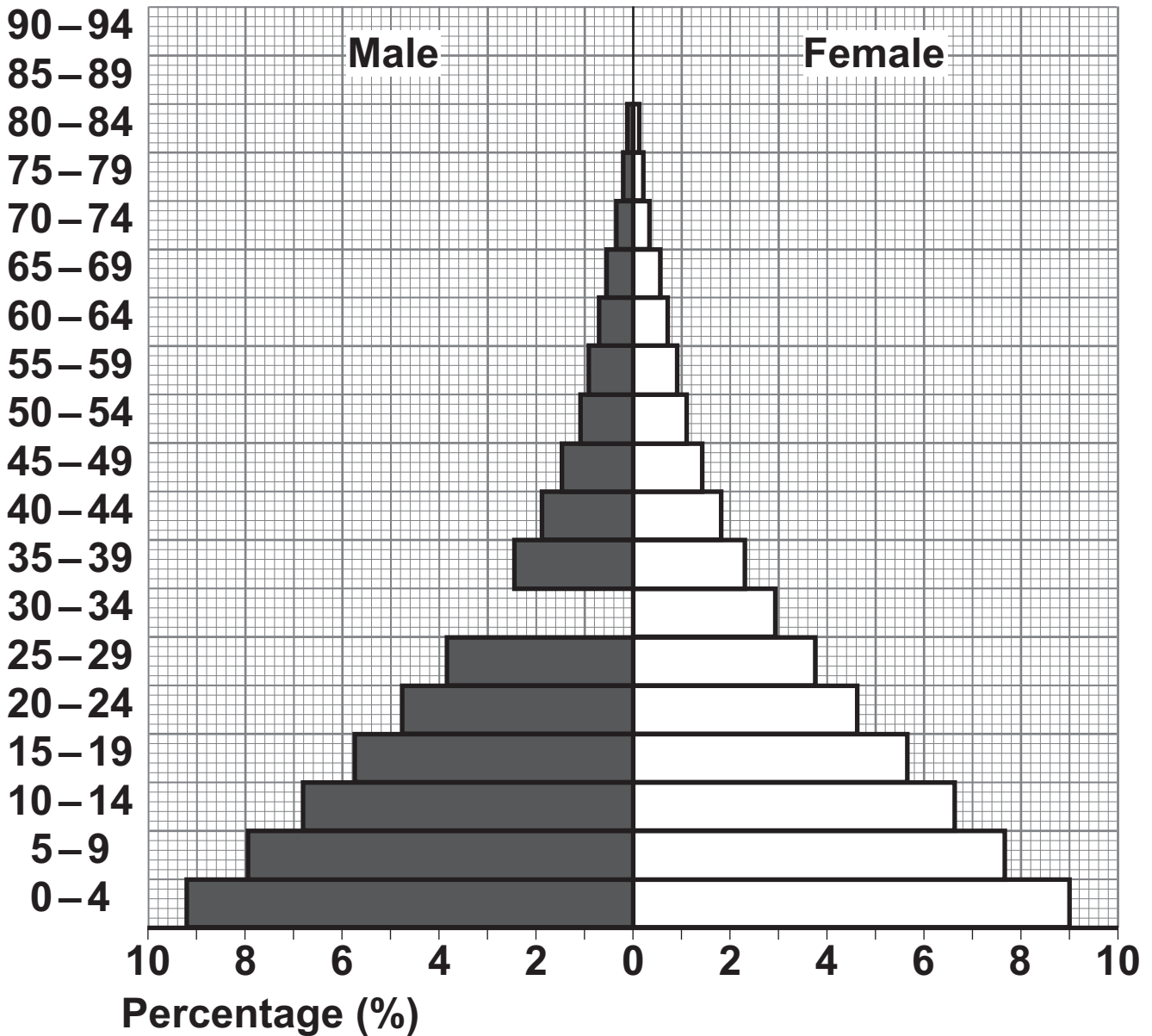_____

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Study FIGURE 8, below, a population pyramid for Chad (2019).

FIGURE 8

Age groups

Percentage (%)

0 2 . 6

Complete FIGURE 8 using the following data. [1 mark]

Males aged 30–34	3%

0 2 . 7

Using FIGURE 8, calculate the percentage (%) of children aged 0–4 years old.

Shade ONE circle only. [1 mark]

◯ **A 9.0%**

◯ **B 9.2%**

◯ **C 15.6%**

◯ **D 18.2%**

[Turn over]

0 2 . 8

What is meant by infant mortality rate? [2 marks]

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Study FIGURE 9, on page 8 of the insert, the Demographic Transition Model.

0 2 . 9

Using FIGURE 9, suggest how population change in Stage 3 may have economic benefits. [3 marks]

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Describe ONE OR MORE impacts that international aid has had on a named LIC/NEE country. [4 marks]

Name of country _____

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'Transnational corporations (TNCs) bring more disadvantages than advantages to a host country.'

Do you agree?

Explain your answer. [6 marks]

Name of LIC/NEE _____

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[End of Section B]

If you have answered Section B, DO NOT answer Section C.

SECTION C   The challenge of resource management

If you choose Section C, answer Question 3
AND EITHER Question 4 (Food)
OR Question 5 (Water) OR Question 6 (Energy).

QUESTION 3   The challenge of resource management

Study FIGURE 10, on page 9 of the insert, a world map showing a measure of well-being for women in 2019.

| 0 | 3 | . | 1 |

Which of the following continents has the largest number of countries with a score of $0-0.57$?

Shade ONE circle only. [1 mark]

○   A   Africa

○   B   Asia

○   C   Europe

○   D   South America

[Turn over]

0 3 . 2

Suggest how poor water supply may affect social well-being. [3 marks]

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0 3 . 3

Explain how changing demand for food has affected the UK's carbon footprint. [4 marks]

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[Turn over]

Study FIGURE 11, below, some headlines about changing demand for water in the UK.

FIGURE 11

'UK dishwasher ownership increased from 22% in 1998 to 49% in 2018'

'Increasing trend for UK houses to have more than 1 bathroom'

'UK population increasingly concentrated in the South'

0 3 . 4

Discuss the challenges of the changing demand for water in the UK.

Use FIGURE 11 and your own understanding. [6 marks]

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[End of Question 3]

Answer EITHER Question 4 (Food) OR Question 5 (Water) OR Question 6 (Energy).

QUESTION 4   Food

Study FIGURE 12, on page 38, a graph showing GNI per person and food consumption per person for selected countries.

0 4 . 1   **Plot the following data on to FIGURE 12. [1 mark]**

Country	GNI (US$ per person per year)	Food consumption (kilocalories per person per day)
Botswana	16 000	2300

0 4 . 2   **Which country is identified by the following data? [1 mark]**

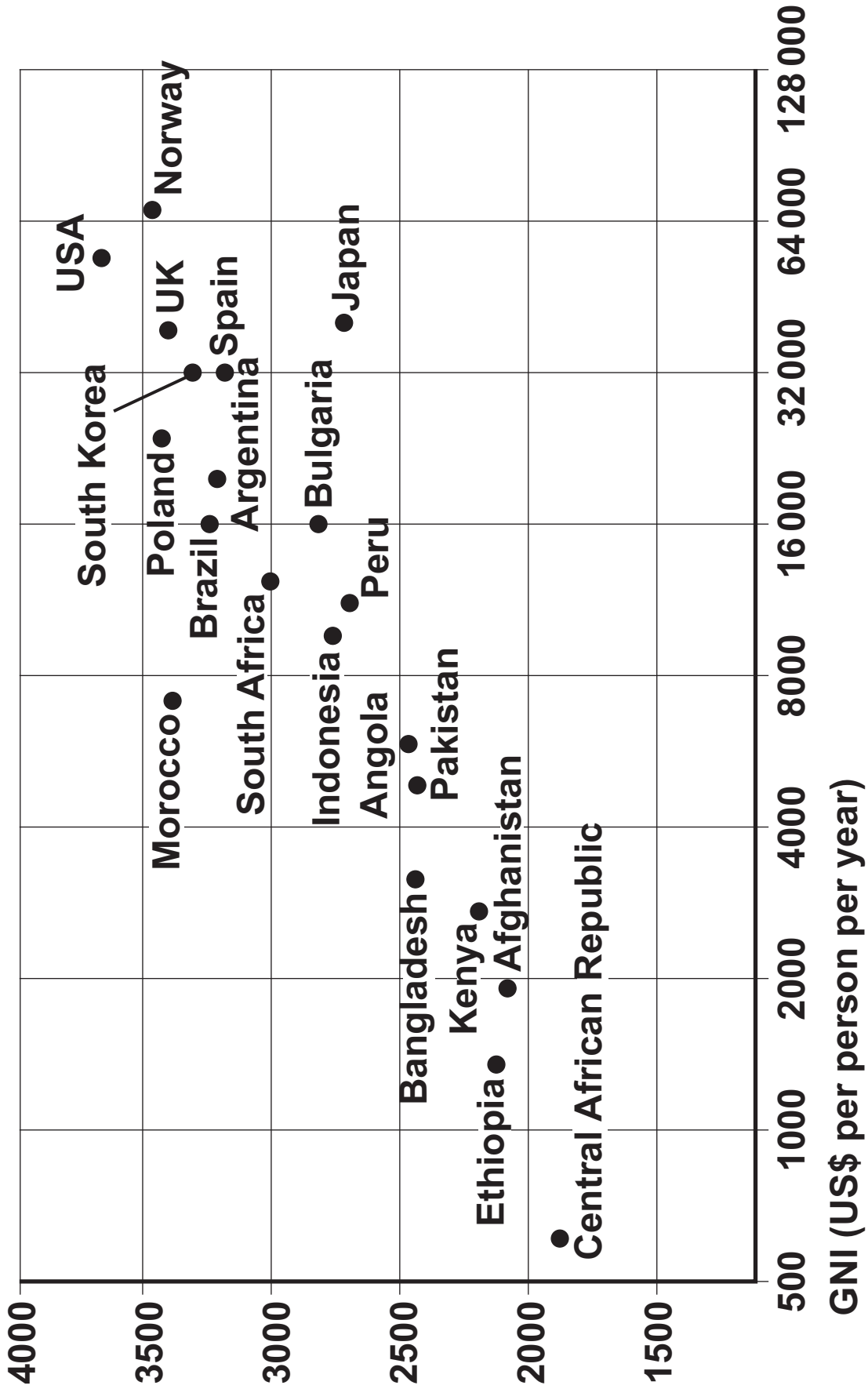| GNI (US$ per person per year)	Food consumption (kilocalories per person per day)
32 000	3200

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[Turn over]

FIGURE 12

Food consumption (kilocalories per person per day)

GNI (US$ per person per year)

0 4 . 3

Draw a best fit line on FIGURE 12. **[1 mark]**

0 4 . 4

Describe the relationship between GNI and food consumption shown in FIGURE 12. **[2 marks]**

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0 4 . 5

Outline ONE OR MORE reasons for the link between GNI and food consumption. [3 marks]

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Give TWO impacts of food insecurity. [2 marks]

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0 4 . 7

Suggest how food supplies have been made more sustainable.

**Use an example of a local scheme in an LIC/NEE.
[6 marks]**

Name of local scheme _____

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[End of Question 4]

[If you have answered Question 4, do not answer Question 5 or 6]

[Turn over]

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QUESTION 5   Water

Study FIGURE 13, on page 46, a graph showing GNI per person and the percentage of rural areas with a basic water supply for selected countries.

0 5 . 1   **Plot the following data on to FIGURE 13. [1 mark]**

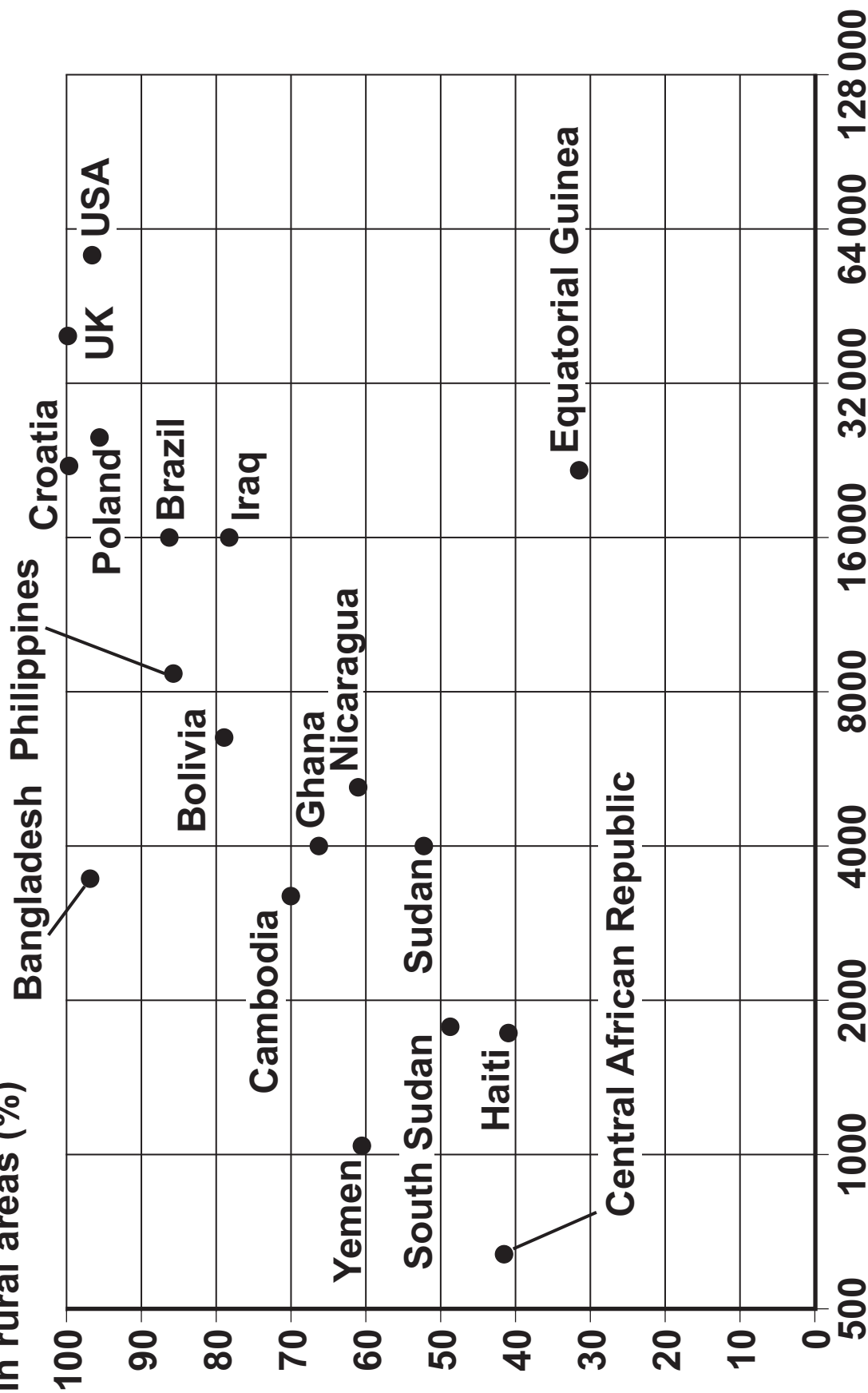| Country	GNI (US$ per person per year)	Basic water supply in rural areas (%)
Botswana	16 000	58

0 5 . 2   **Which country is identified by the following data? [1 mark]**

GNI (US$ per person per year)	Basic water supply in rural areas (%)
4000	52

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[Turn over]

FIGURE 13

Basic water supply in rural areas (%)

Basic water supply = access to water within 30 minutes

GNI (US$ per person per year)

0 5 . 3

Draw a best fit line on FIGURE 13.   [1 mark]

0 5 . 4

Describe the relationship between GNI and access to a basic water supply shown in FIGURE 13.   [2 marks]

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0 5 . 5

Outline ONE OR MORE reasons for the link between GNI and water supply. [3 marks]

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Give TWO impacts of water insecurity. [2 marks]

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0 5 . 7

Suggest how water supplies have been made more sustainable.

Use an example of a local scheme in an LIC/NEE.
[6 marks]

Name of local scheme _____

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[End of Question 5]

[If you have answered Question 5, do not answer Question 4 or 6]

[Turn over]

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QUESTION 6 Energy

Study FIGURE 14, on page 54, a graph showing GNI per person and energy consumption for selected countries.

0 6 . 1 **Plot the following data on to FIGURE 14. [1 mark]**

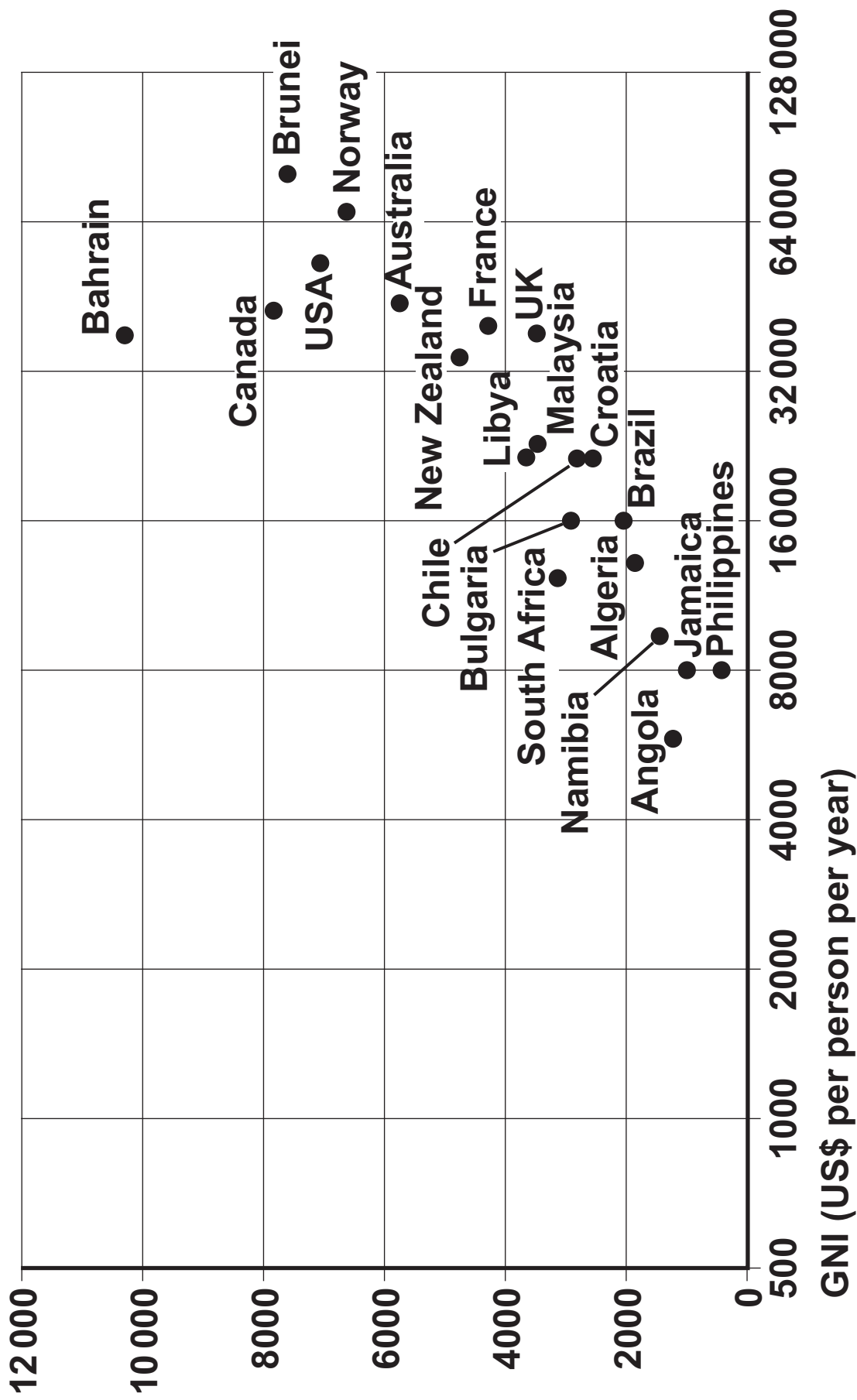| Country	GNI (US$ per person per year)	Energy consumption (kg oil equivalent per person per year)
Botswana	16 000	1200

0 6 . 2 **Which country is identified by the following data? [1 mark]**

GNI (US$ per person per year)	Energy consumption (kg oil equivalent per person per year)
8000	450

[Turn over]

FIGURE 14

Energy consumption (kg oil equivalent per person per year) versus GNI (US$ per person per year).

0 6 . 3

Draw a best fit line on FIGURE 14. [1 mark]

0 6 . 4

Describe the relationship between GNI and energy consumption shown in FIGURE 14. [2 marks]

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0 6 . 5

Outline ONE OR MORE reasons for the link between GNI and energy consumption. [3 marks]

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0 6 . 6

Give TWO impacts of energy insecurity. [2 marks]

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0 6 . 7

Suggest how energy supplies have been made more sustainable.

Use an example of a local renewable energy scheme in an LIC/NEE. [6 marks]

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[End of Question 6]

[If you have answered Question 6, do not answer Question 4 or 5]

END OF QUESTIONS

Additional page, if required.
Write the question numbers in the left-hand margin.

Additional page, if required.
Write the question numbers in the left-hand margin.

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For Examiner's Use	
Question	Mark
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