



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.



Surname _____

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

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

[Turn over]



J U N 2 2 8 0 3 5 2 0 1

MATERIALS

For this paper you must have:

- **the insert (enclosed)**
- **a pencil**
- **a rubber**
- **a ruler.**

You may use a calculator.

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.

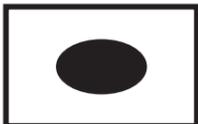
DO NOT TURN OVER UNTIL TOLD TO DO SO



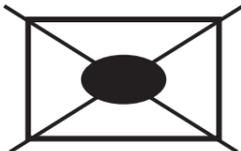
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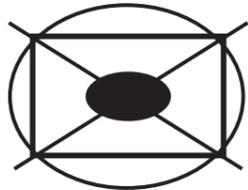


For the multiple-choice questions, shade the circle next to the correct answer.

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]



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.

0 1 . 1

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

[Turn over]



0 1 . 2

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

0 1 . 3

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

Name of city _____

Regional importance _____

[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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[Turn over]



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

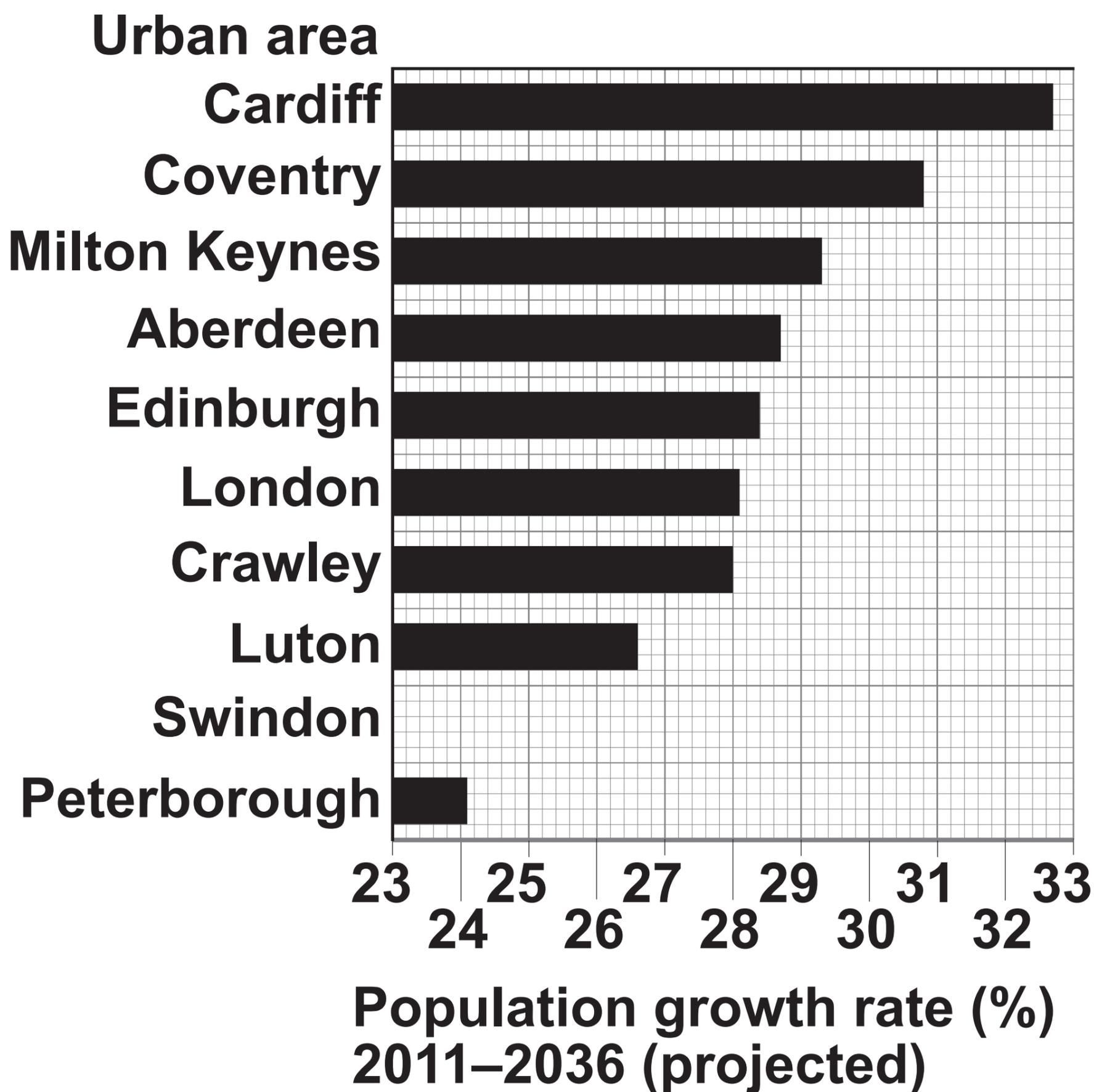
0 1 . 5

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

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

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

FIGURE 4



01 . 6

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

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

01 . 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).

0 1 . 8

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



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

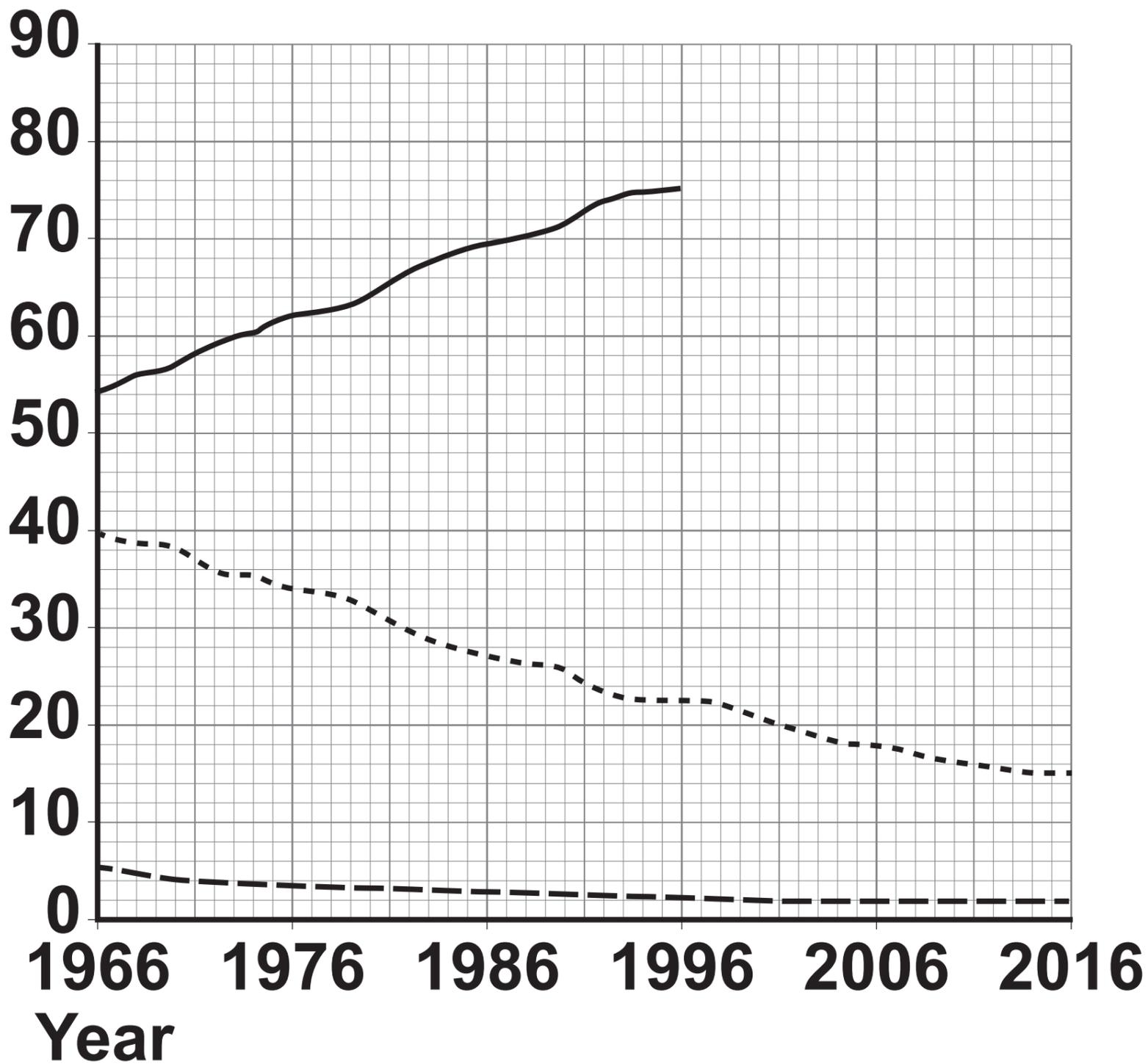
Study FIGURE 6, on page 25, a graph showing the percentage of employment in different industrial sectors in the UK.

0 2 . 1

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

| YEAR | % employment in service industry |
|------|----------------------------------|
| 2006 | 81 |
| 2016 | 84 |



FIGURE 6**Employment in different industrial sectors (%)****KEY**

- Primary industry
- Secondary industry
- Service industry

[Turn over]

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%



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

[Turn over]



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?’

0 2 . 5

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]

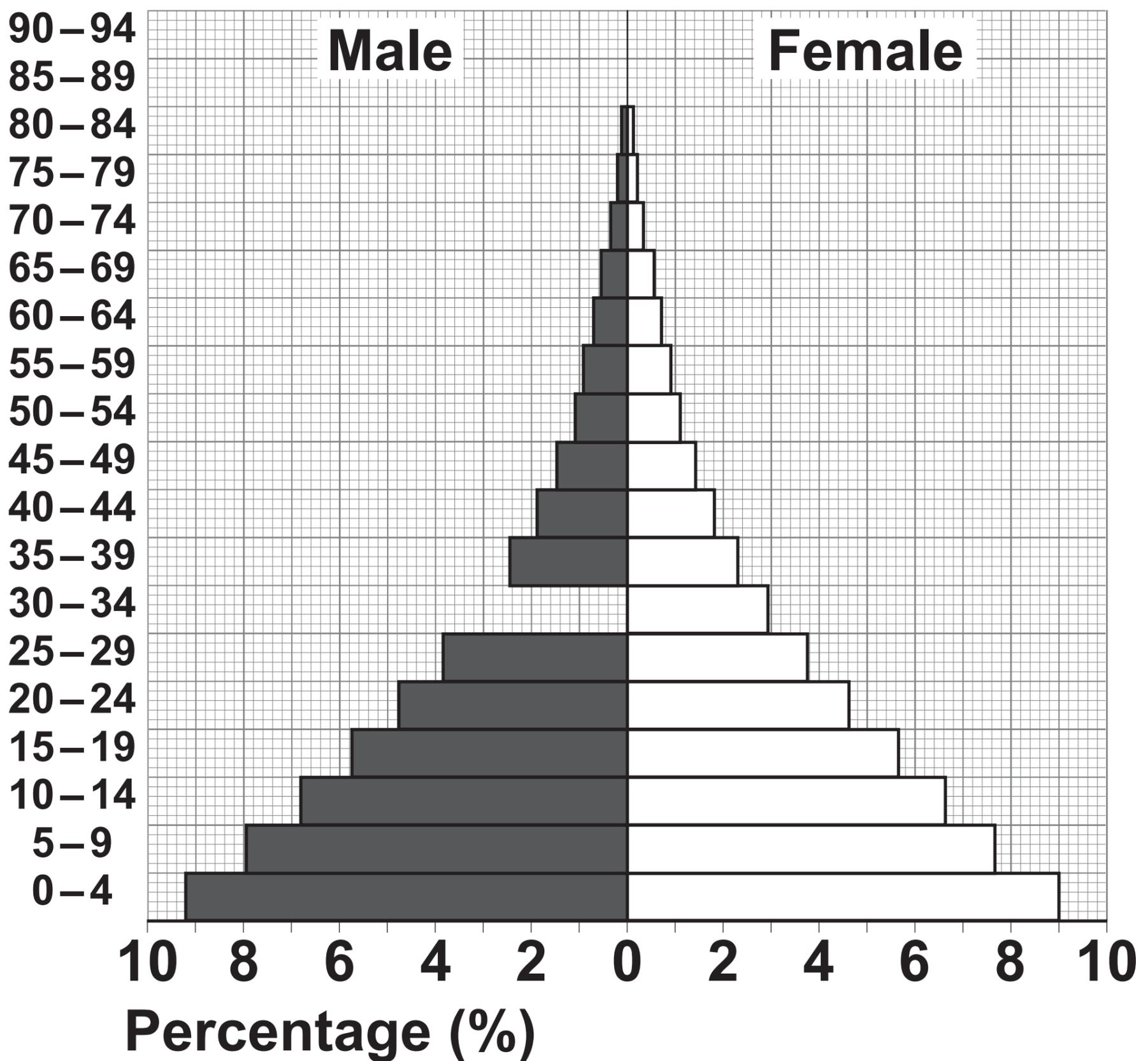
[Turn over]



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

FIGURE 8

Age
groups



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]**



0 2 . 1 1

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

Do you agree?

Explain your answer. [6 marks]

Name of LIC/NEE _____



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).

[Turn over]



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.

03 . **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]



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’

03 . 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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[Turn over]



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

QUESTION 4 Food

Study FIGURE 12, on page 52, 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 |

[Turn over]

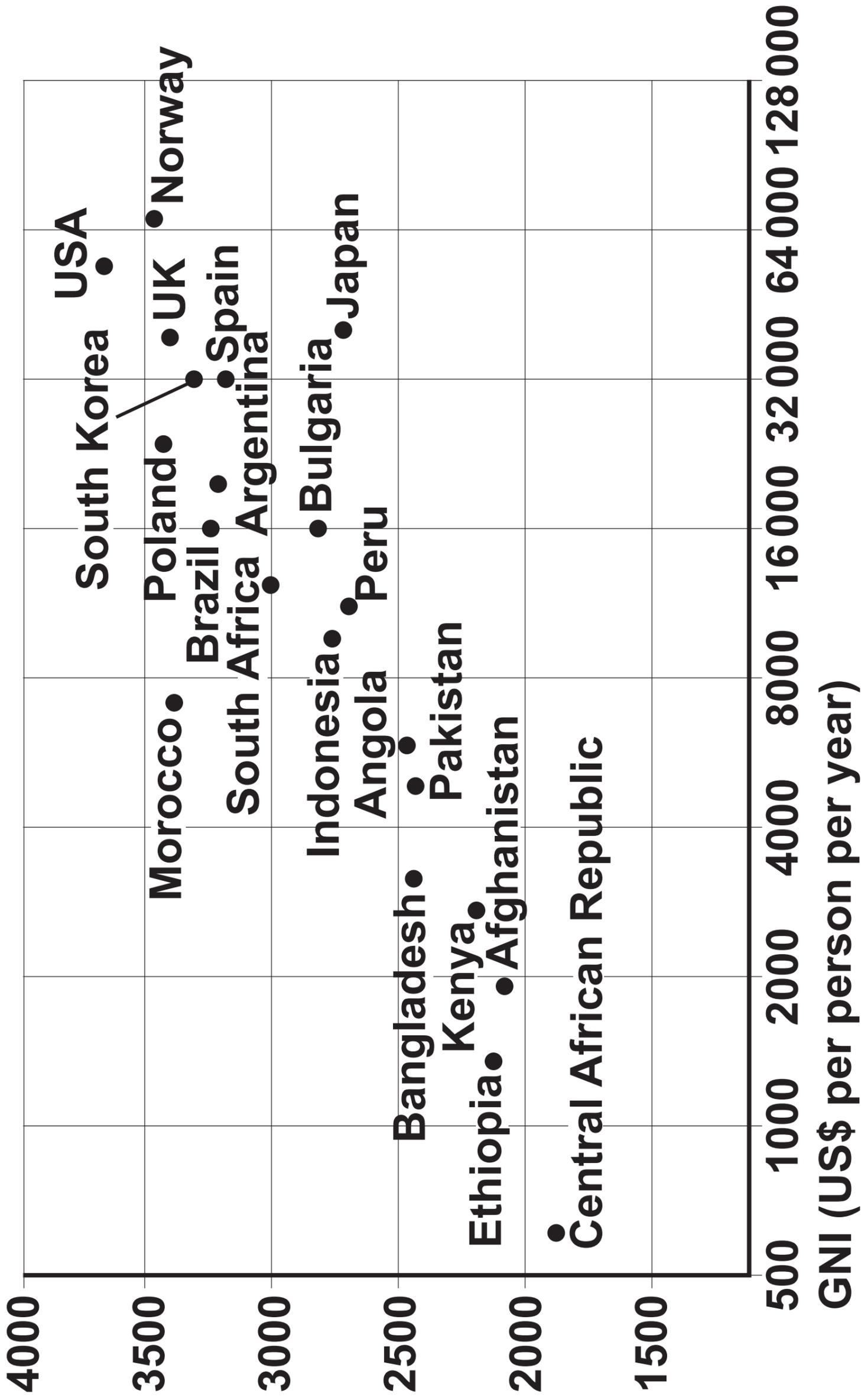




5 2

FIGURE 12

Food consumption
(kilocalories per person per day)





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]

[Turn over]

0 4 . 6

**Give TWO impacts of food insecurity.
[2 marks]**

1 _____

2 _____

[Turn over]



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[Turn over]



QUESTION 5 Water

Study FIGURE 13, on page 62, 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 |



05 . 2

Which country is identified by the following data? [1 mark]

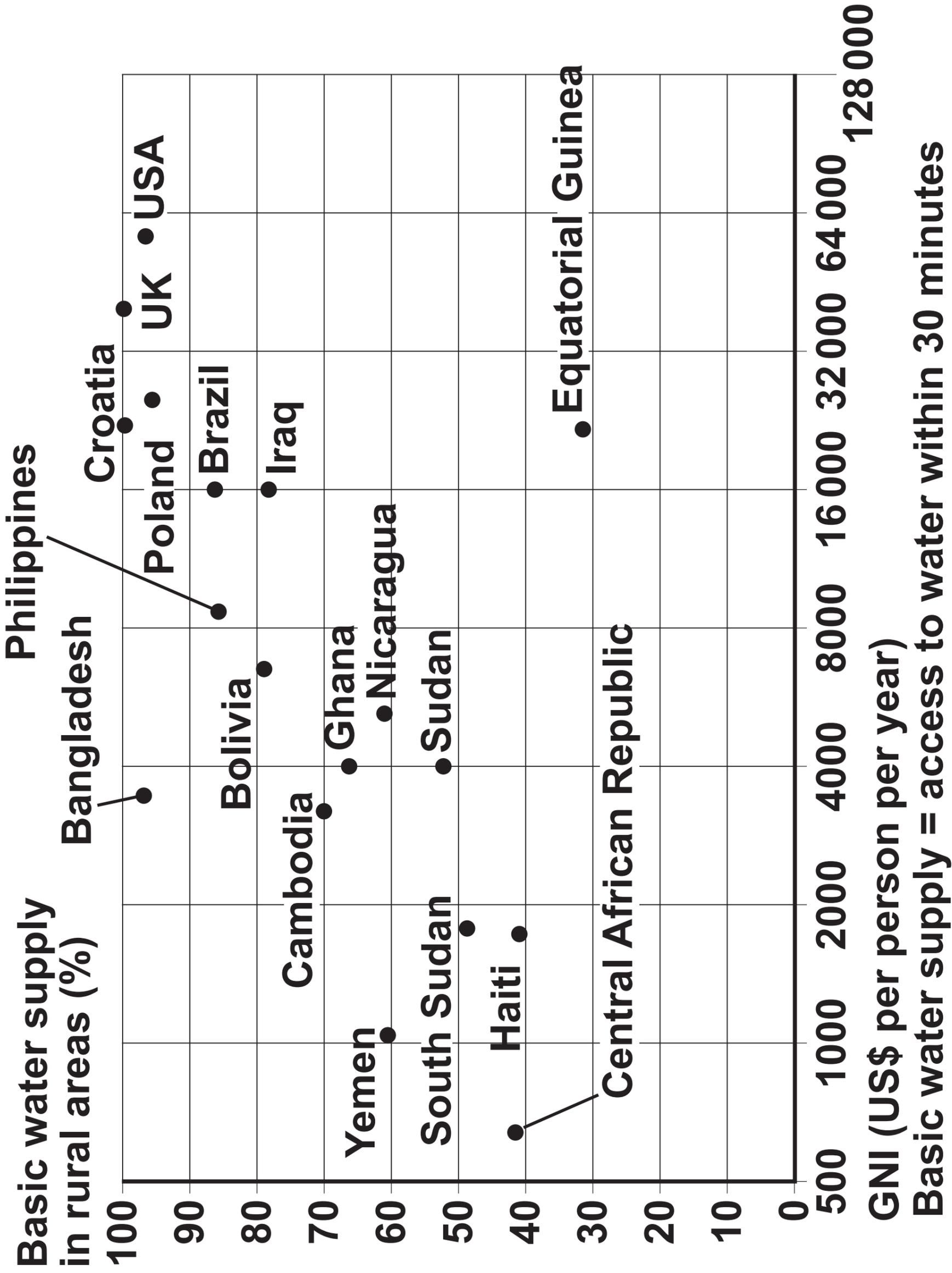
| | |
|---------------------------------------|--|
| GNI (US\$ per person per year) | Basic water supply in rural areas (%) |
| 4000 | 52 |

[Turn over]





FIGURE 13





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]

[Turn over]

0 5 . 6

**Give TWO impacts of water insecurity.
[2 marks]**

1 _____

2 _____

[Turn over]



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[Turn over]



QUESTION 6 Energy

Study FIGURE 14, on page 72, 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 |

06 . 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]

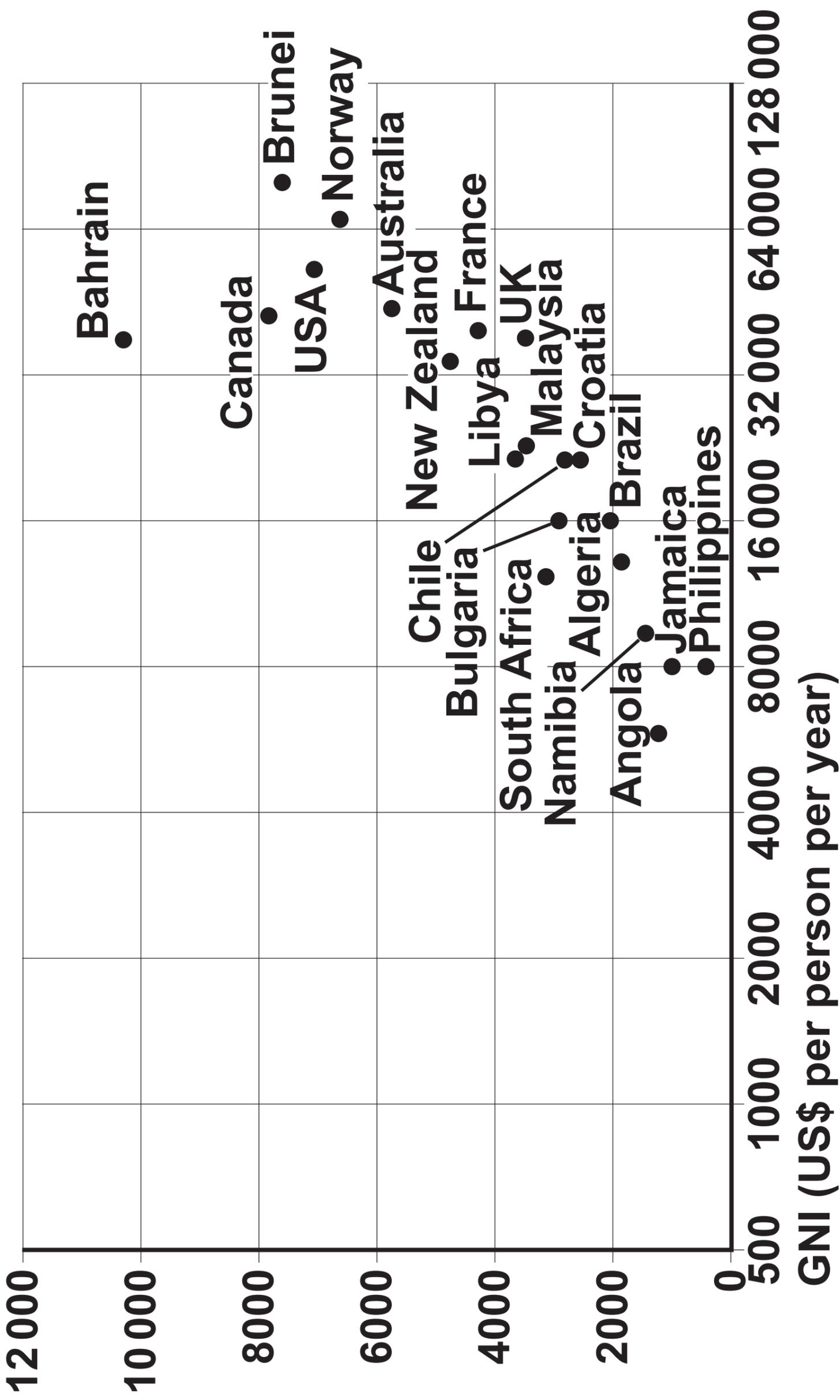




7 2

FIGURE 14

Energy consumption (kg oil equivalent per person per year)





06 . 3

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

06 . 4

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

[Turn over]

0 6 . 6

**Give TWO impacts of energy insecurity.
[2 marks]**

1 _____

2 _____

[Turn over]



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| For Examiner's Use | |
|--------------------|------|
| Question | Mark |
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| TOTAL | |

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