Please write clearly in block capitals.

Centre number | | | | | | Candidate number | | | | |

Surname _____

Forename(s) _____

Candidate signature _____
I declare this is my own work.

GCSE
GEOGRAPHY

Paper 2 Challenges in the human environment

Friday 6 June 2025 Afternoon Time allowed: 1 hour 30 minutes

Materials
For this paper you must have:
- the OS map key insert (enclosed)
- a pencil
- a rubber
- a ruler.

You may use a calculator.

Instructions
- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.

Answer all questions in Section A and Section B.
Answer Question 3 and one other question in Section C.

- You must answer the questions in the spaces provided. Do not write outside the box around each page or 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.

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

Information
- The marks for questions are shown in brackets.
- The total number of marks available for this paper is 88.
- Spelling, punctuation, grammar and specialist terminology will be assessed in Question **01.11**.
- HIC is a higher income country.
- LIC is a lower income country.
- NEE is a newly emerging economy.

Do not write outside the box

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. ⬬

Section A Urban issues and challenges

Answer **all** questions in this section.

Question 1 Urban issues and challenges

0 1 . 1 What is urbanisation?

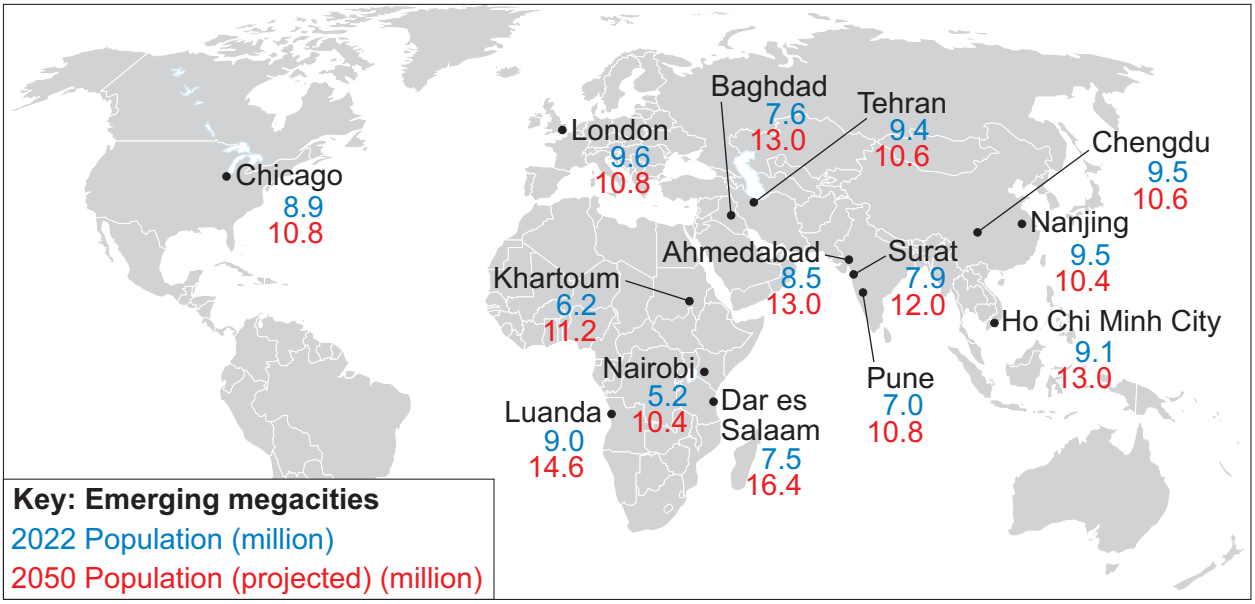
[1 mark]

_____

_____

Study **Figure 1**, a world map showing cities expected to become megacities by 2050.

Figure 1



Do not write outside the box

0 1 . 2 Which continent is expected to have the most new megacities in 2050?

Shade **one** circle only.

[1 mark]

A Africa ⬭

B Asia ⬭

C Europe ⬭

D North America ⬭

0 1 . 3 What is the expected percentage growth of Nairobi 2022–2050?

Shade **one** circle only.

[1 mark]

A 50% ⬭

B 100% ⬭

C 150% ⬭

D 200% ⬭

Question 1 continues on the next page

Do not write outside the box

Study **Figure 2**, some data about three of the cities shown in **Figure 1**.

Figure 2

City	Median age	Additional population per week
Baghdad, Iraq	21	3850
Ho Chi Minh City, Vietnam	30	3270
Khartoum, Sudan	20	2885

0 1 . 4 Suggest how natural increase and migration affect the growth of LIC/NEE cities.

Use **Figure 2** and your own understanding.

[4 marks]

Extra space

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Turn over for the next question

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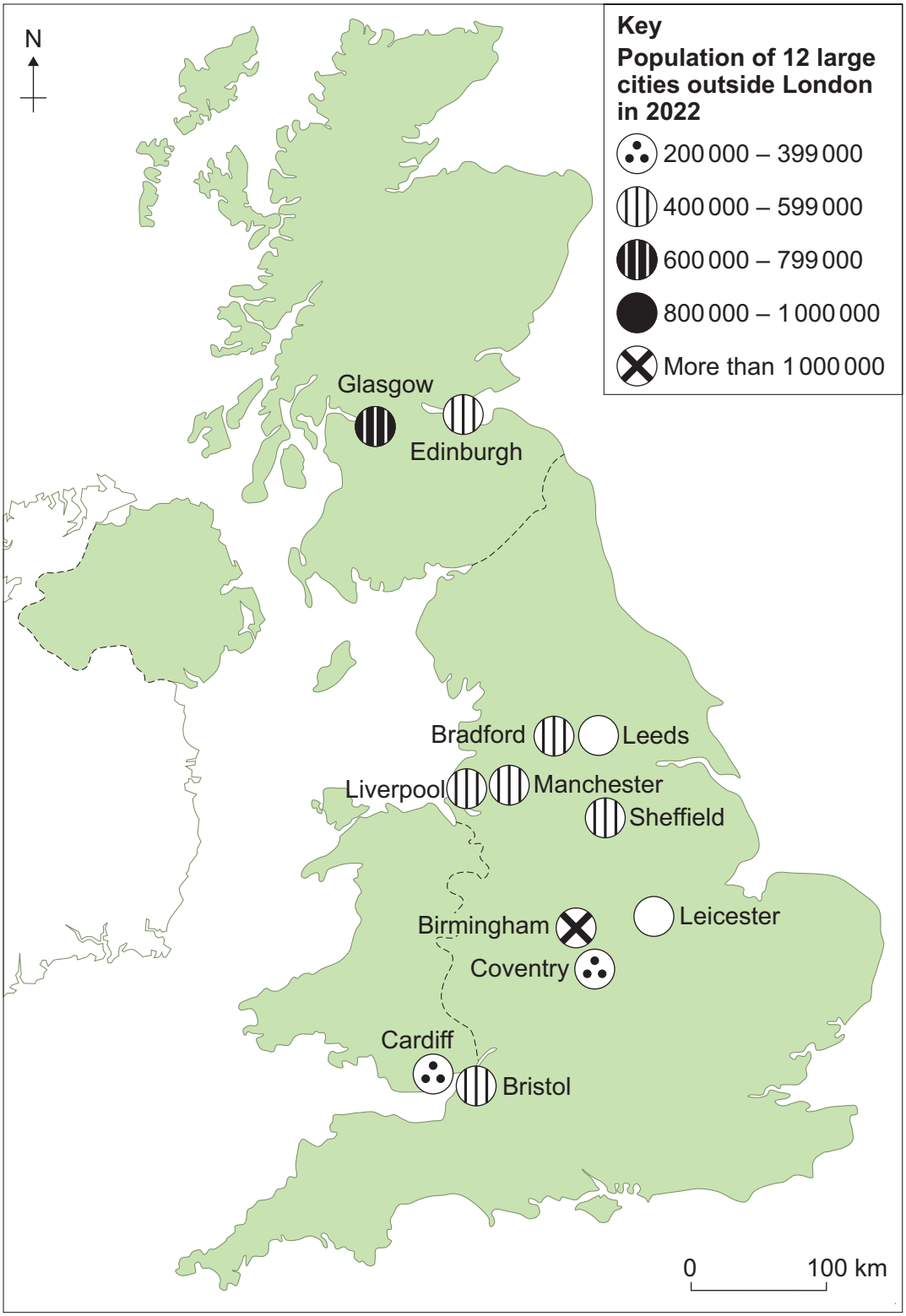
ANSWER IN THE SPACES PROVIDED

Do not write outside the box

Figure 3



Do not write outside the box

Figure 3 (opposite) is a map of the UK showing the population of 12 large cities outside London in 2022.

0 1 . 5 Complete **Figure 3** using the following data.

[2 marks]

City	Population
Leeds	812 000
Leicester	369 000

0 1 . 6 Describe the importance of a named UK city for the rest of the UK.

[2 marks]

Name of city _____

Importance _____

_____

_____

_____

_____

0 1 . 7 Outline **one** impact of national migration on a named UK city.

[2 marks]

Name of city _____

Impact _____

_____

_____

_____

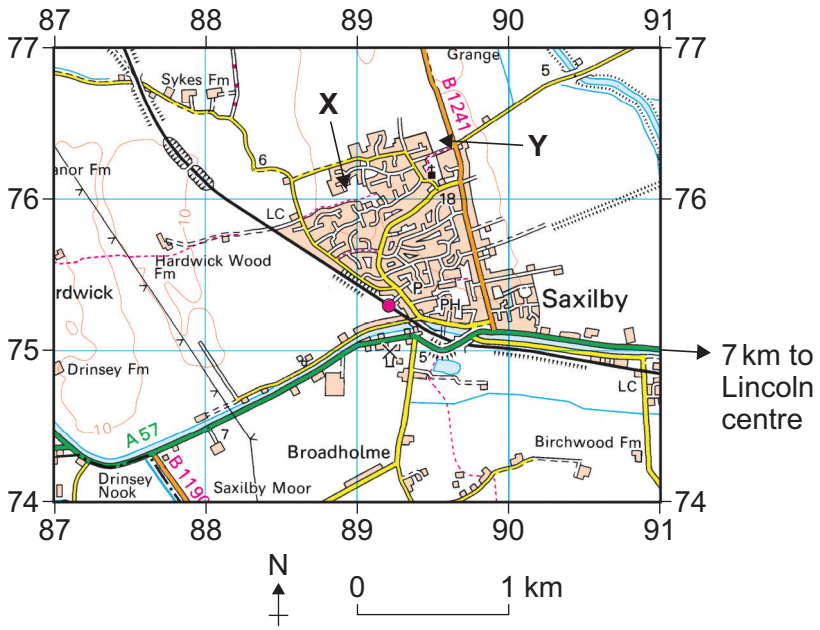
_____

Question 1 continues on the next page

Do not write outside the box

Study **Figure 4**, a 1:50 000 Ordnance Survey map of Saxilby, a village near Lincoln, a city in the UK.

Figure 4



0 1 . 8 What is the approximate area of the village of Saxilby?

[1 mark]

_____ km^2

0 1 . 9 What is the straight line distance from the railway station to the level crossing at 884758?

[1 mark]

_____

Do not write outside the box

Study **Figure 5**, photographs of new housing developments at Location **X** and Location **Y** on the Ordnance Survey map in **Figure 4**.

Figure 5

Location X	**Location Y**

0 1 . 1 0 Suggest how the growth of a commuter settlement has impacts on the rural–urban fringe.

Use **Figure 4** and **Figure 5** and your own understanding.

[6 marks]

Do not write outside the box

Extra space

Study **Figure 6**, a photograph of part of Dar es Salaam, Tanzania, a NEE in east Africa.

Figure 6

0 1 . 1 1 Discuss how urban growth in LIC/NEE cities has created social and economic opportunities.

Use **Figure 6** and a case study.

[9 marks]
[+ 3 SPaG marks]

Do not write outside the box

Extra space

33

End of Section A

Turn over for Section B

Do not write outside the box

Section B The changing economic world

Answer **all** questions in this section.

Question 2 The changing economic world

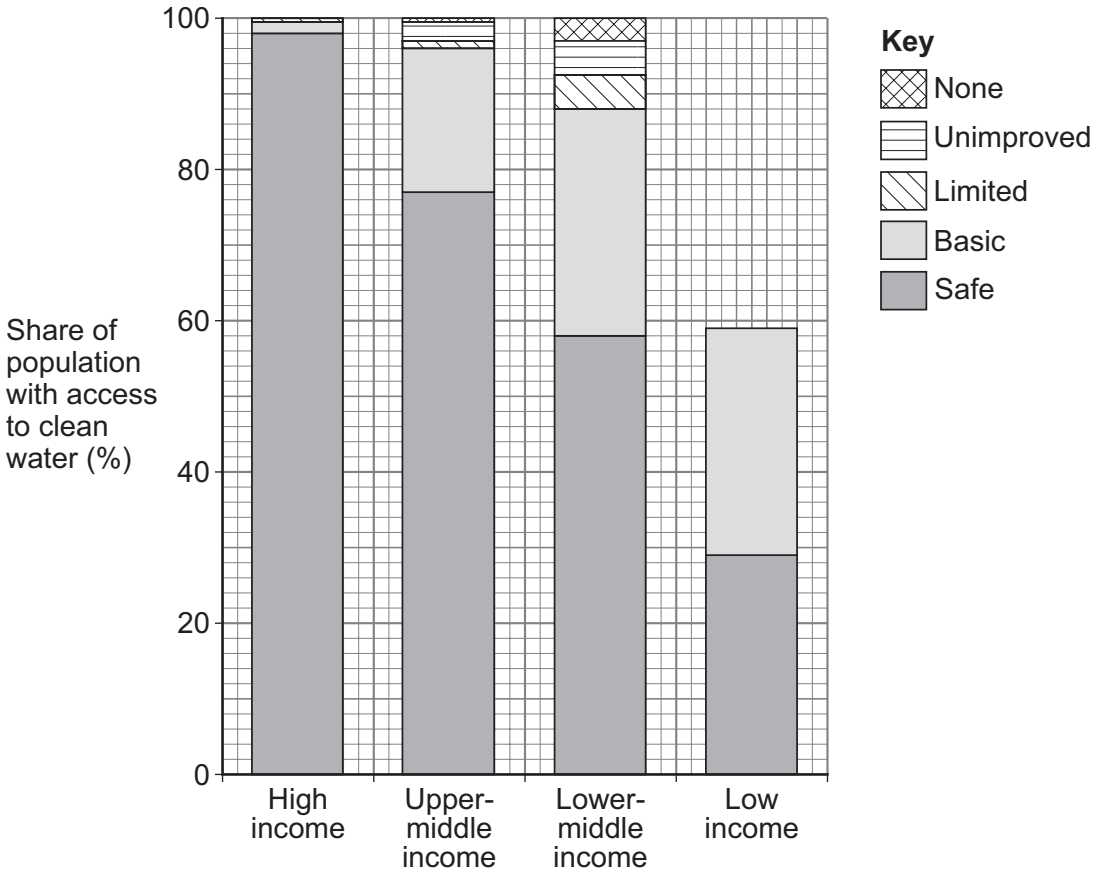
Figure 7 is a graph showing access to clean water in different income groups of countries in 2020.

0 2 . 1 Complete **Figure 7** below using the following data for low income countries.

[2 marks]

Share of the population with access to clean water		
Limited	Unimproved	None
17%	18%	6%

Figure 7



Do not write outside the box

0 2 . 2 What is the difference in access to **safe** water supply between high income and lower-middle income countries?

[1 mark]

_____ %

0 2 . 3 Outline the limitation(s) of **one** social measure of development such as access to clean water.

[2 marks]

_____

_____

_____

_____

0 2 . 4 Explain **one or more** causes of uneven development.

[4 marks]

_____

_____

_____

_____

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Extra space _____

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Do not write outside the box

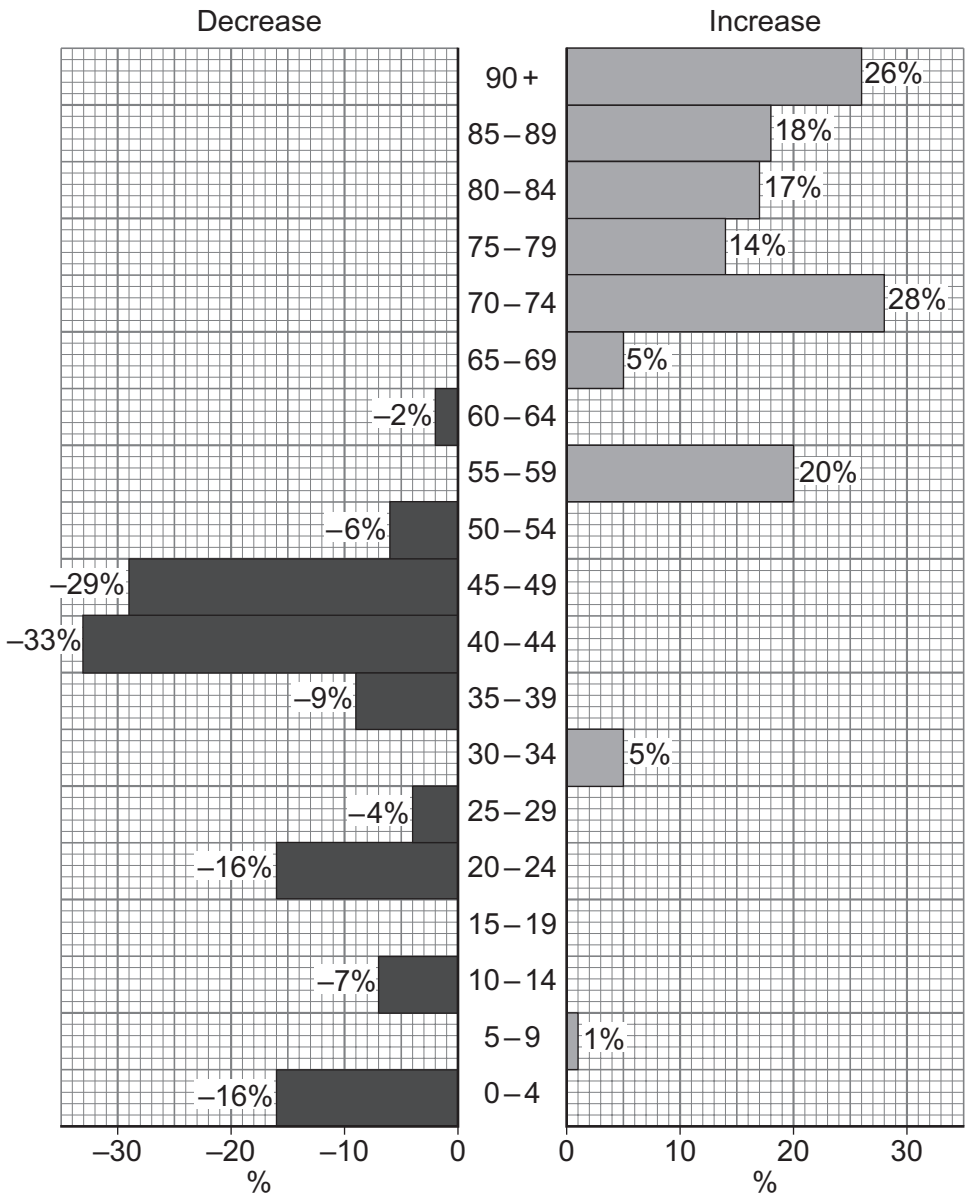
Figure 8 is a graph showing percentage population change by age group in a rural area of the UK from 2011 to 2021.

0 2 . 5 Complete **Figure 8** using the following data.

[1 mark]

Age group	Percentage change
15–19	–24%

Figure 8



Do not write outside the box

0 2 . 6 What is the range between the largest percentage increase and largest percentage decrease in population shown on **Figure 8**?

[1 mark]

_____ %

0 2 . 7 Calculate the mean population change in the 65+ age groups shown on **Figure 8**.

Give your answer to the nearest whole number.

[1 mark]

_____ %

Question 2 continues on the next page

Do not write outside the box

Study **Figure 9**, some newspaper headlines about rural areas in the UK.

Figure 9

'Smallest school in the UK' to close as its only student moves away to the mainland.

Rural shops provide lifeline for isolated rural communities.

Government asked to support rural bus services.

0 2 . 8 Suggest how population decline can lead to social **and** economic changes in the rural landscape in the UK.

Use **Figure 9** and your own knowledge.

[6 marks]

Extra space

Do not write outside the box

Question 2 continues on the next page

Do not write outside the box

Study **Figure 10**, an article about development in Peru, a NEE in South America.

Figure 10

The president of Peru said the government is always working to improve citizens' quality of life.

He said that money would always be spent on projects that benefit those most in need. It is particularly important to improve sanitation in the country if they are to progress.

The president also stated that much work had already been done in the poorest regions and he guaranteed money for new projects to expand the availability of clean water. (April 2019)

The photograph showing the ceremonial laying of the pipeline cannot be reproduced here due to third-party copyright restrictions.

The image can be found at https://andina.pe/ingles/noticia-peru-president-government-works-to-improve-citizens-quality-of-life-747884.aspx

0 2 . 9 Use **Figure 10** to suggest how economic development affects peoples' quality of life.

[3 marks]

Do not write outside the box

0 2 . 1 0 Evaluate the impacts of a transnational corporation (TNC) on a host country.

Use a case study of a LIC/NEE.

[9 marks]

Extra space

Do not write outside the box

30

End of Section B

Do not write outside the box

Turn over for Section C

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ANSWER IN THE SPACES PROVIDED

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Section C The challenge of resource management

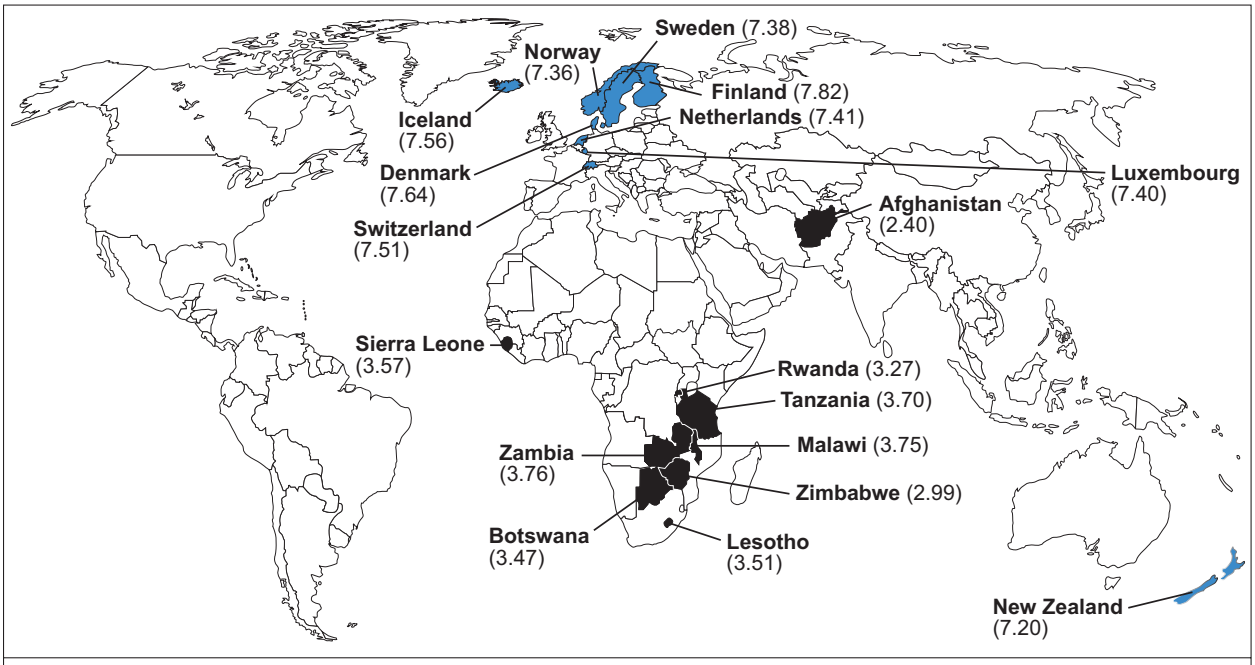
Answer **Question 3** and

either Question 4 (Food) **or** Question 5 (Water) **or** Question 6 (Energy).

Question 3 The challenge of resource management

Study **Figure 11**, a world map showing 9 of the 10 countries that scored highest and 9 of the 10 countries that scored lowest for well-being in 2022.

Figure 11



Key

Nine high scoring countries Nine low scoring countries

Note: the well-being score includes both social and economic measures

0 3 . 1 Calculate the median well-being score for the nine lowest scoring countries shown.

Answer to **two** decimal places.

[2 marks]

Show your working

Median well-being score _____

Do not write outside the box

0 3 . 2 Suggest **one** reason for higher well-being scores in a country.

[1 mark]

_____

_____

0 3 . 3 Explain how changing demand for food has affected organic farming in the UK.

[2 marks]

_____

_____

_____

_____

Question 3 continues on the next page

Do not write outside the box

Study **Figure 12**, an extract from a UK government report in January 2022.

Figure 12

> 'No river in England is clean,' say MPs. Agriculture and water companies have caused raw sewage, microplastics and farm waste to be in all of England's rivers. Car tyre particles, oils and wet wipes are also found in rivers. People using rivers are now at risk.

0 3 . 4 'Managing water quality and water pollution in the UK is a significant challenge.'

To what extent do you agree with this statement?

Use **Figure 12** and your own understanding.

[6 marks]

Extra space

11

End of Question 3

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Turn over for the next question

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ANSWER IN THE SPACES PROVIDED

Do not write outside the box

Answer **either** Question 4 (Food) **or** Question 5 (Water) **or** Question 6 (Energy).

Question 4 Food

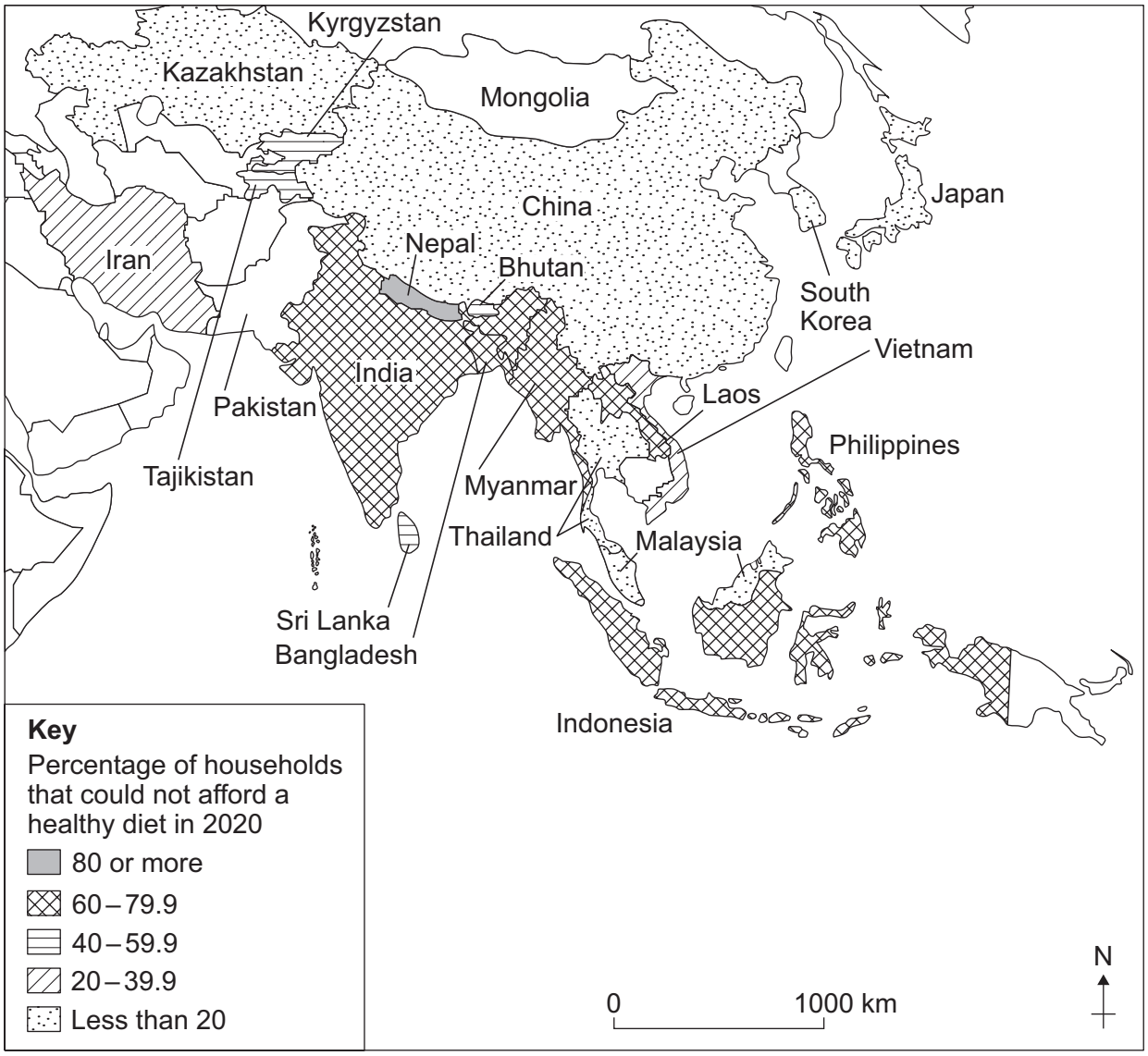
Figure 13 is a map showing the percentage of households that could not afford a healthy diet in 2020 in selected Asian countries.

0 4 . 1 Complete **Figure 13** using the following data.

[2 marks]

Country	Percentage of households that could not afford a healthy diet
Pakistan	80 or more
Mongolia	40–59.9

Figure 13



Do not write outside the box

0 4 . 2 Name **one** country where 60–79.9% of households could not afford a healthy diet in 2020.

[1 mark]

_____

0 4 . 3 How many of the countries shown in **Figure 13** had less than 20% of households that could not afford a healthy diet?

Shade **one** circle only.

[1 mark]

A 6 ⬭

B 7 ⬭

C 8 ⬭

D 9 ⬭

What percentage of the 21 countries for which data is shown had less than 20% of households that could not afford a healthy diet?

Answer to **one** decimal place.

[1 mark]

_____ %

0 4 . 4 Outline **one or more** ways that physical factors can affect food supply.

[3 marks]

_____

_____

_____

_____

_____

_____

Question 4 continues on the next page

Do not write outside the box

0 4 . 5 Explain how seasonal food consumption **and** reducing food waste can lead to increased sustainability of food supply.

[6 marks]

Extra space

14

End of Question 4

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

Do not write outside the box

Turn over for the next question

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ANSWER IN THE SPACES PROVIDED

Do not write outside the box

Question 5 Water

Figure 14 is a map showing the water stress in selected European countries in 2019.

0 5 . 1 Complete **Figure 14** using the following data.

[2 marks]

Country	Water stress
Portugal	High
Ireland	Low

Figure 14

Do not write outside the box

0 5 . 2 Name **one** country which had medium-high water stress.

[1 mark]

_____

0 5 . 3 How many of the countries shown in **Figure 14** had low-medium water stress?

Shade **one** circle only.

[1 mark]

A 6 ⬭

B 7 ⬭

C 8 ⬭

D 9 ⬭

What percentage of the 32 countries for which data is shown had low-medium water stress?

Answer to **one** decimal place.

[1 mark]

_____%

0 5 . 4 Outline **one or more** ways that physical factors can affect water availability.

[3 marks]

_____

_____

_____

_____

_____

_____

Question 5 continues on the next page

Do not write outside the box

0 5 . 5 Explain how water conservation **and** using grey water can lead to increased sustainability of water supply.

[6 marks]

Extra space

14

End of Question 5

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

Do not write outside the box

Turn over for the next question

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ANSWER IN THE SPACES PROVIDED

Do not write outside the box

Question 6 Energy

Figure 15 is a map showing the percentage of households that could not afford to heat their home in selected European countries in 2021.

0 6 . 1 Complete **Figure 15** using the following data.

[2 marks]

Country	Percentage of households that could not afford to heat their home
Bulgaria	20 or more
Poland	2–4.9

Figure 15

Do not write outside the box

0 6 . 2 Name **one** country where 5–9.9% of households could not afford to heat their home in 2021.

[1 mark]

_____

0 6 . 3 How many of the countries shown in **Figure 15** had 10–19.9% of households that could not afford to heat their homes in 2021?

Shade **one** circle only.

[1 mark]

A 5 ⬭

B 6 ⬭

C 7 ⬭

D 8 ⬭

What percentage of the 28 countries for which data is shown had 10–19.9% of households that could not afford to heat their homes?

Answer to **one** decimal place.

[1 mark]

_____%

0 6 . 4 Outline **one or more** ways that physical factors can affect energy supply.

[3 marks]

_____

_____

_____

_____

_____

_____

Question 6 continues on the next page

Do not write outside the box

0 6 . 5 Explain how strategies to conserve energy in homes **and** workplaces and in transport can lead to increased sustainability of energy supply.

[6 marks]

Extra space

14

End of Question 6

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

END OF QUESTIONS

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ANSWER IN THE SPACES PROVIDED

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

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

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

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