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.

AQA

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

Time allowed: 1 hour 15 minutes

Materials
For this paper you must have:
- 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.
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.

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

- 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.

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 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.

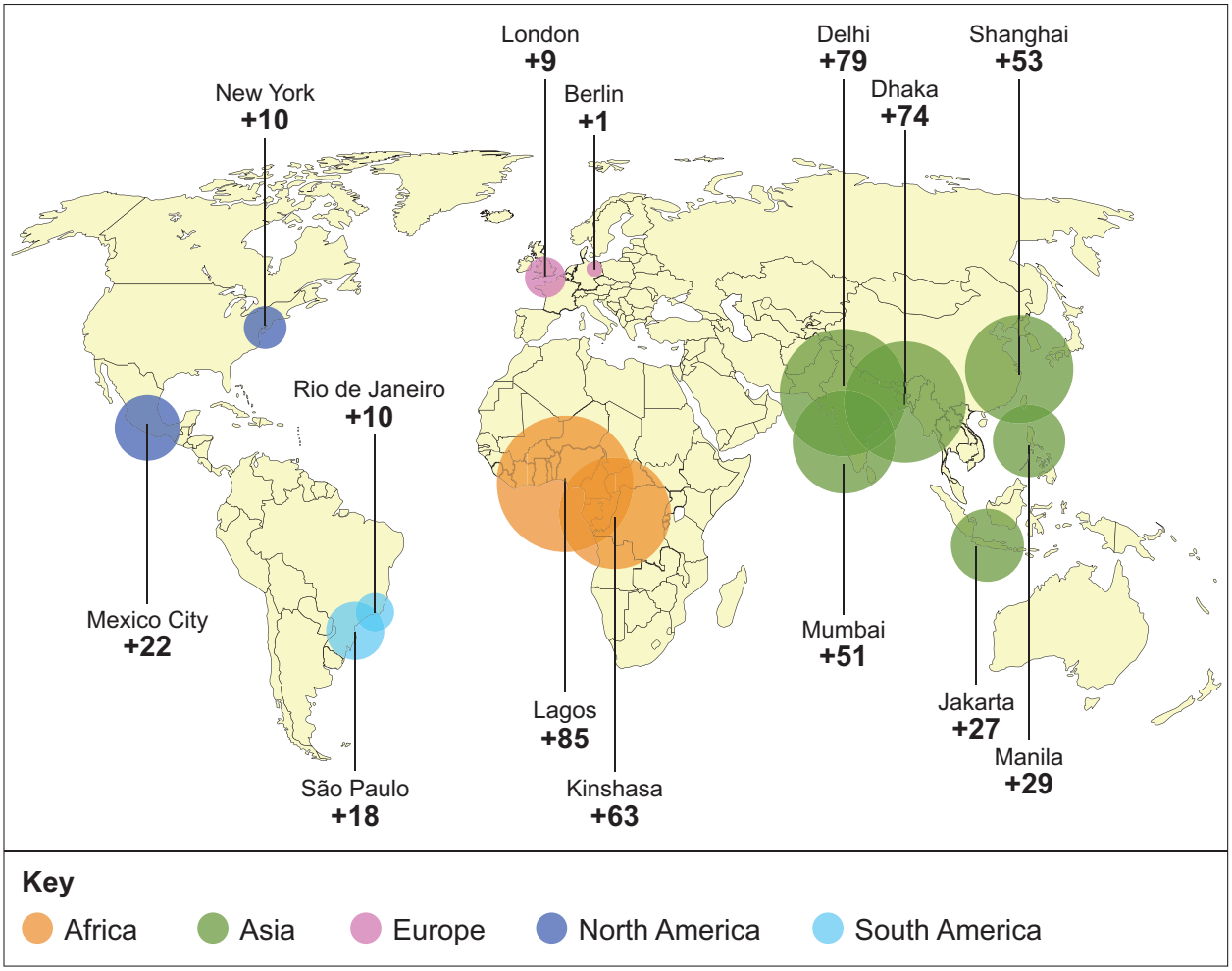
Section A Urban issues and challenges

Answer **all** questions in this section.

Question 1 **Urban issues and challenges**

Study **Figure 1**, a world map showing the rate of growth for some major cities, measured in people per hour.

Figure 1



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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

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 _____

_____

_____

Question 1 continues on the next page

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Study **Figure 2**, a newspaper extract about urban change in sub-Saharan Africa.

Figure 2

Housing in sub-Saharan Africa improves but millions still live in slums

A new study of housing quality in sub-Saharan Africa states 'there has been a dramatic improvement in living conditions during the past 15 years'.

Researchers found housing had improved across several measures during the period. Amount of living space, access to water and sanitation, and good quality construction were found in 23% of houses in 2015, up from 11% in 2000.

The study's author said, "Our study shows that many people are investing in their homes, but there is also an urgent need for governments to help improve infrastructure."

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]

Do not write outside the box

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Study **Figure 3**, a photograph and factfile about transport improvements in Utrecht, a city in the Netherlands.

Figure 3

From Bus Stops to Bee Stops

- 316 bus stops have green roofs covered in plants
- All have LED lighting and 96 have solar panels
- The base of the shelter is made of recycled concrete

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]

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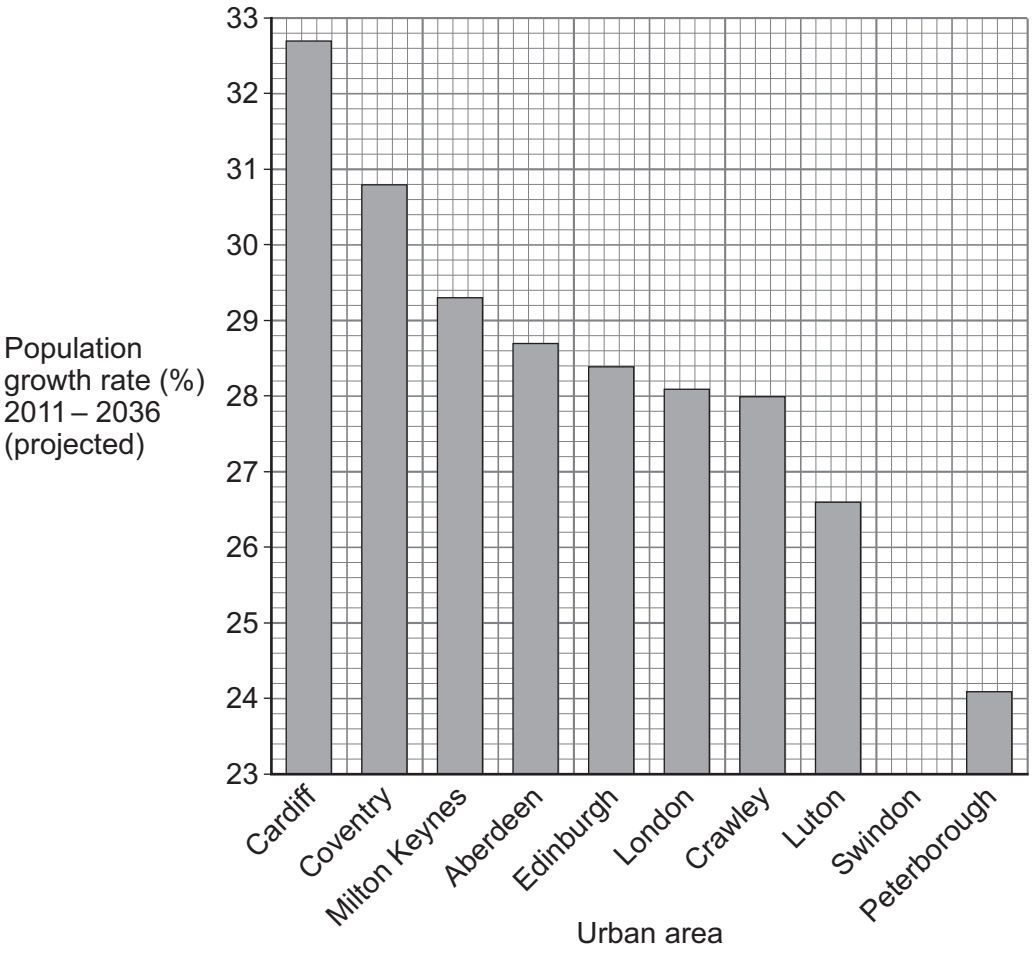
Study **Figure 4**, a graph showing the 10 UK urban areas with the highest population growth rate (%), 2011–2036 (projected).

Figure 4



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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% ⬭

Question 1 continues on the next page

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Study **Figure 5**, a map showing the 10 highest and 10 lowest UK urban areas for population growth rate (%), 2011–2036 (projected).

Figure 5

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0 1 . 8 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]

Name of UK city _____

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Question 1 continues on the next page

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0 1 . 1 0 Assess the challenges created by urban change in a UK city you have studied.

[9 marks]
[+ 3 SPaG marks]

Name of UK city _____

Extra space _____

Do not write outside the box

33

End of Section A

Turn over for Section B

Do not write outside the box

Answer **either** Section B **or** Section C.

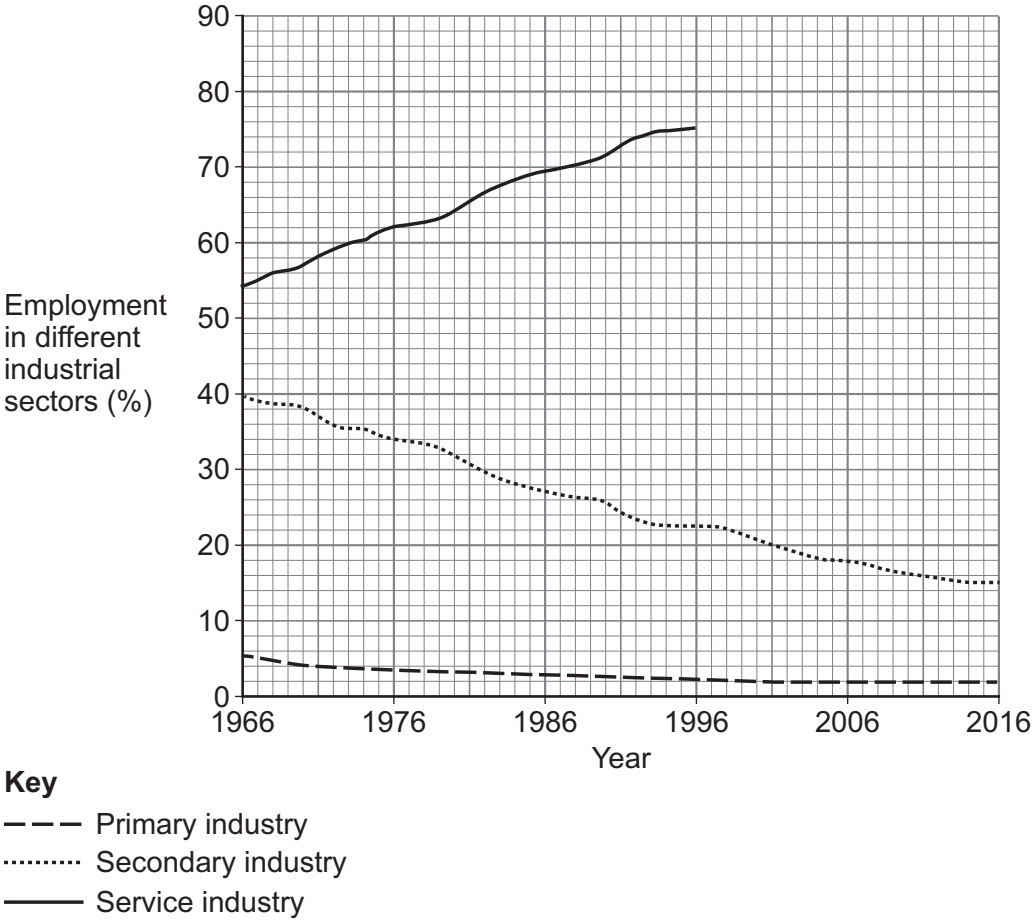
Section B The changing economic world

If you choose Section B answer **all** questions in this section.

Question 2 **The changing economic world**

Study **Figure 6**, a graph showing the percentage of employment in different industrial sectors in the UK.

Figure 6



0 2 . 1 Complete **Figure 6** using the following data.

[2 marks]

Year	% employment in service industry
2006	81
2016	84

Do not write outside the box

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 ⬭

0 2 . 4 Outline **one or more** reasons for the decline of traditional industries in the UK.

[3 marks]

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Question 2 continues on the next page

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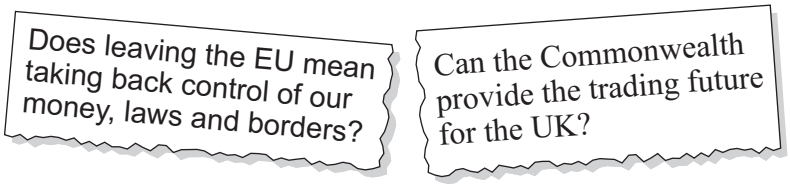
Study **Figure 7**, showing newspaper headlines.

Figure 7



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]

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Question 2 continues on the next page

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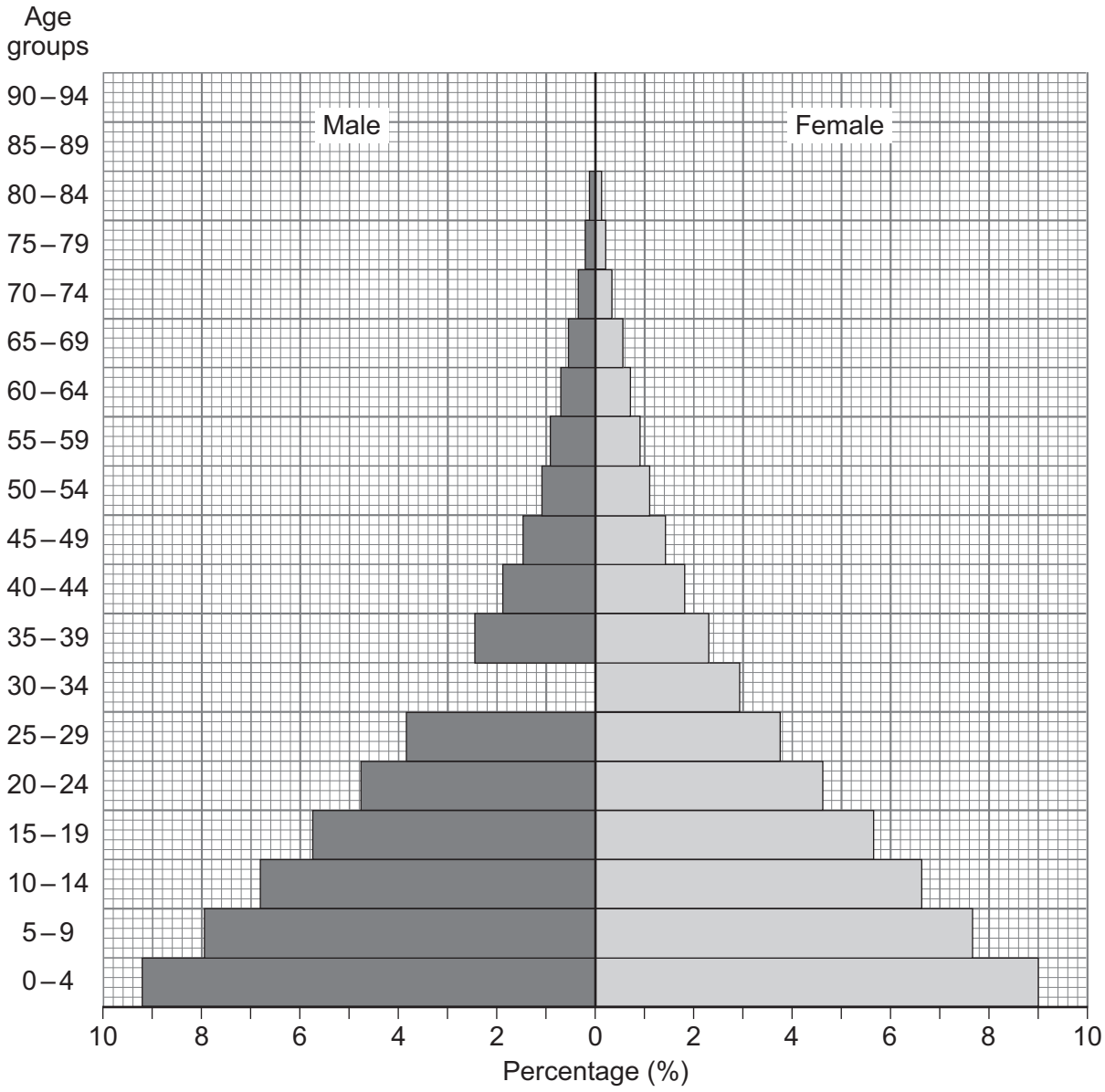
Study **Figure 8**, a population pyramid for Chad (2019).

Figure 8



0 2 . 6 Complete **Figure 8** using the following data.

[1 mark]

Males aged 30 – 34	**3%**

Do not write outside the box

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% ⬭

0 2 . 8 What is meant by infant mortality rate?

[2 marks]

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Question 2 continues on the next page

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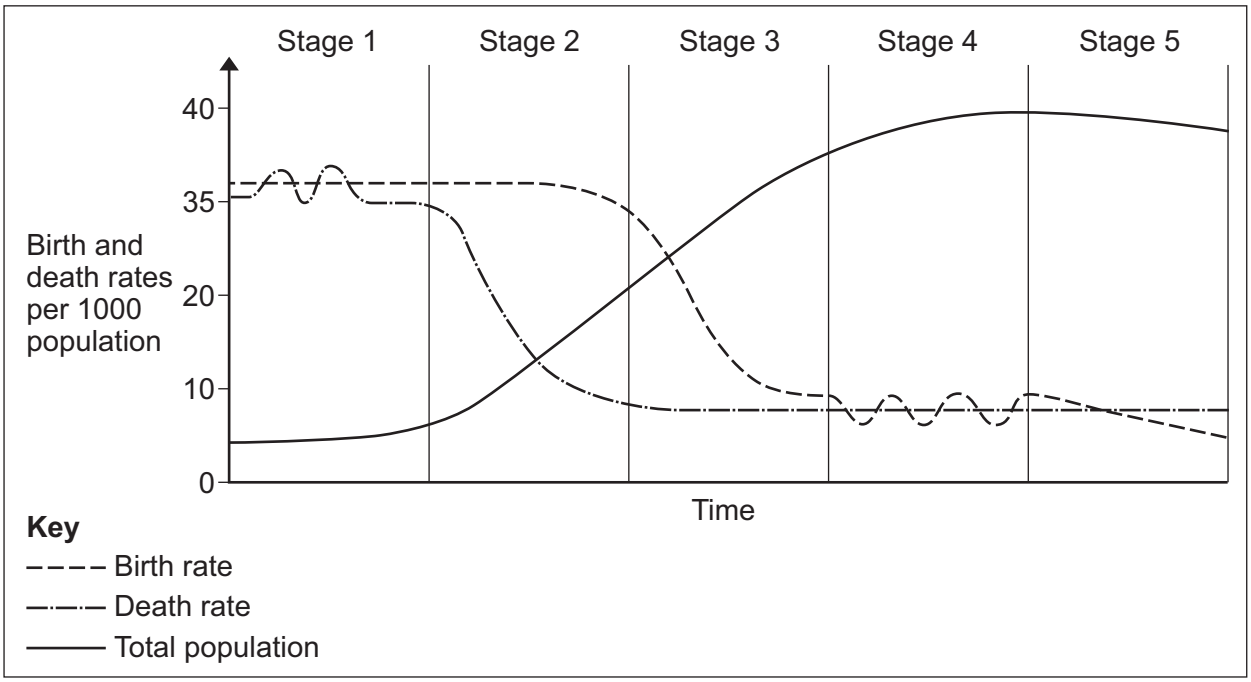
Study **Figure 9**, the Demographic Transition Model.

Figure 9



0 2 . 9 Using **Figure 9**, suggest how population change in Stage 3 may have economic benefits.

[3 marks]

Do not write outside the box

0 2 . 1 0 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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Extra space _____

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Question 2 continues on the next page

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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 _____

Extra space _____

30

End of Section B

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Turn over for Section C

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ANSWER IN THE SPACES PROVIDED

Turn over ▶

Do not write outside the box

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**, a world map showing a measure of well-being for women in 2019.

Figure 10

Figure 10 not reproduced here due to third-party copyright restrictions

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

Do not write outside the box

0 3 . 2 Suggest how poor water supply may affect social well-being.

[3 marks]

0 3 . 3 Explain how changing demand for food has affected the UK's carbon footprint.

[4 marks]

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Question 3 continues on the next page

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Study **Figure 11**, 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]

Extra space

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14

End of Question 3

Turn over for the next question

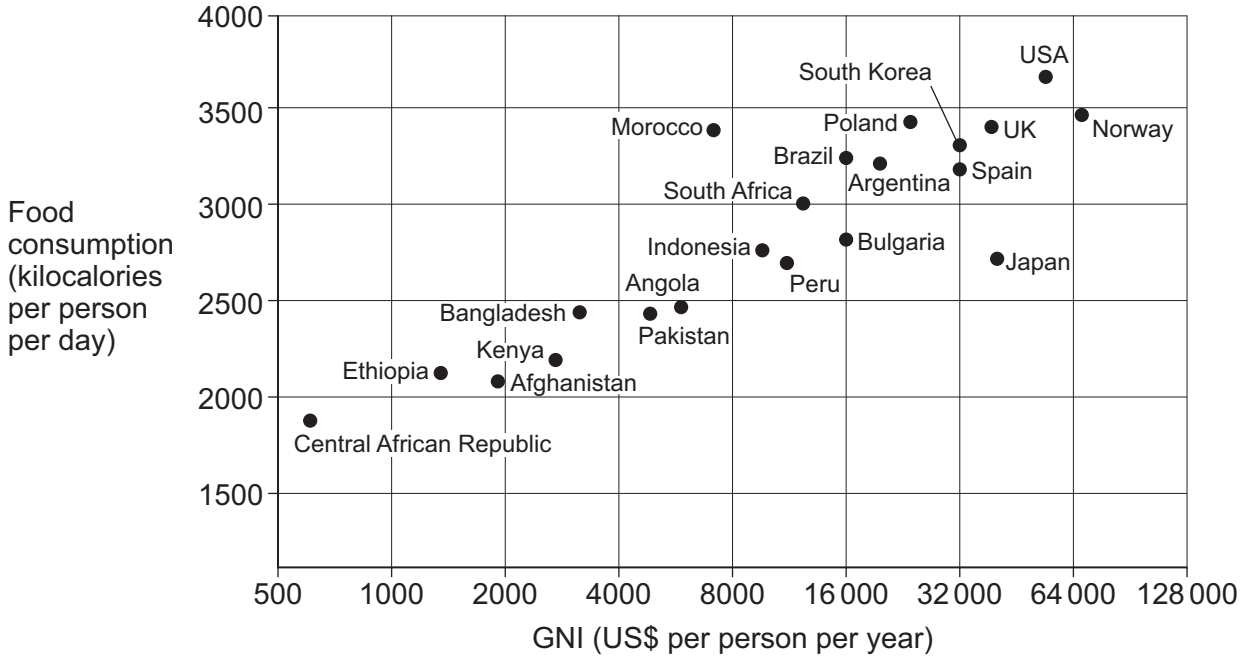
Do not write outside the box

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

Question 4 **Food**

Study **Figure 12**, a graph showing GNI per person and food consumption per person for selected countries.

Figure 12



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

Do not write outside the box

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

_____

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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Question 4 continues on the next page

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0 4 . 6 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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16

End of Question 4

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

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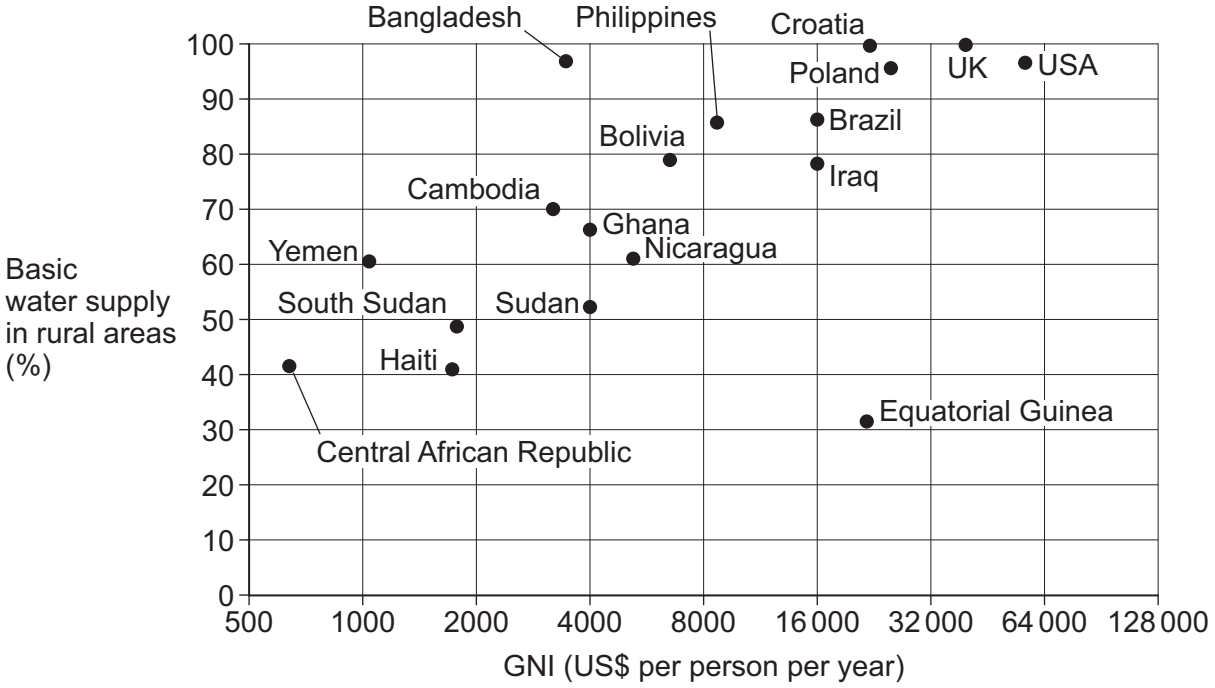
Question 5 **Water**

Study **Figure 13**, a graph showing GNI per person and the percentage of rural areas with a basic water supply for selected countries.

Figure 13



Basic water supply = access to water within 30 minutes

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

Do not write outside the box

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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0 5 . 6 Give **two** impacts of water insecurity

[2 marks]

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Question 5 continues on the next page

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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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16

End of Question 5

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

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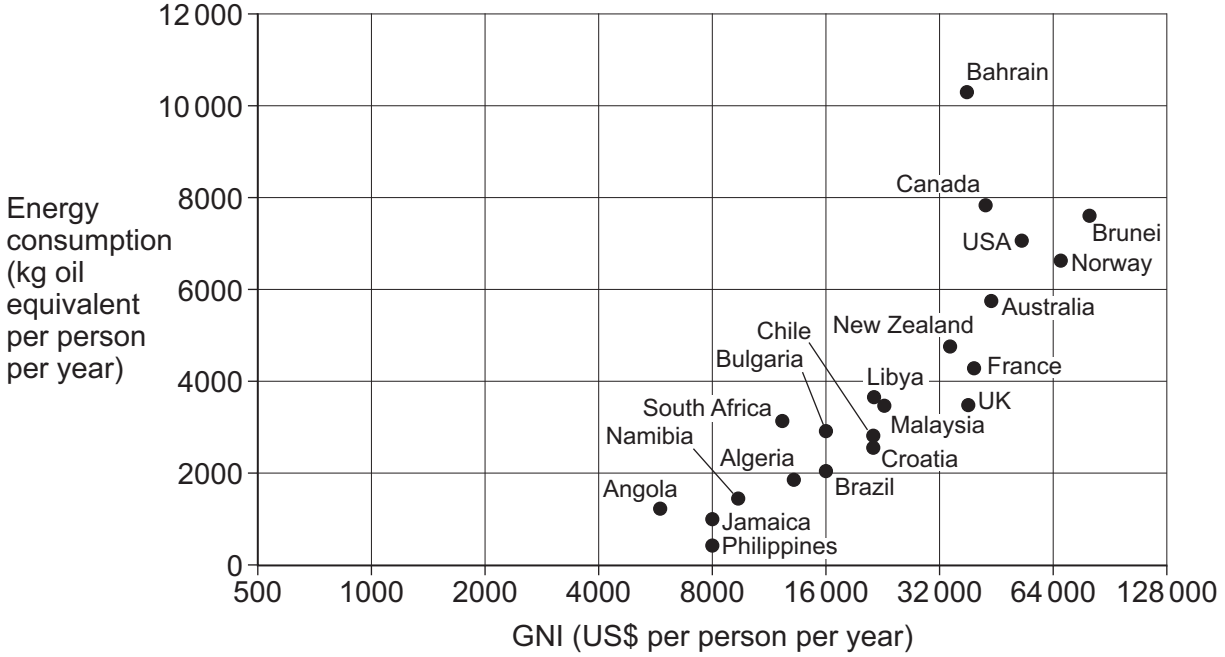
Question 6 **Energy**

Study **Figure 14**, a graph showing GNI per person and energy consumption for selected countries

Figure 14



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

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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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Question 6 continues on the next page

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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]

Name of local scheme _____

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

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