

Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

Forename(s)

Candidate signature

I declare this is my own work.

INTERNATIONAL GCSE GEOGRAPHY

Paper 2 Challenges in the Human Environment

A

Friday 4 November 2022 07:00 GMT Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- a ruler with millimetre measurements
- a calculator, which you are expected to use where appropriate.

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **all** questions in **Sections A** and **B**.
- Answer **one** question from **Section C**, **either** Question 3 **or** Question 4.
- 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 extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- All working must be shown.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The maximum mark for this paper is 80.
- The marks for questions are shown in brackets.
- You **may use** a bilingual dictionary for this exam.
- You may **not** use an English dictionary.

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



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Section A – Urban issues and challengesAnswer **all** questions in the spaces provided.You must answer **all** questions in this section.

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

CORRECT METHOD

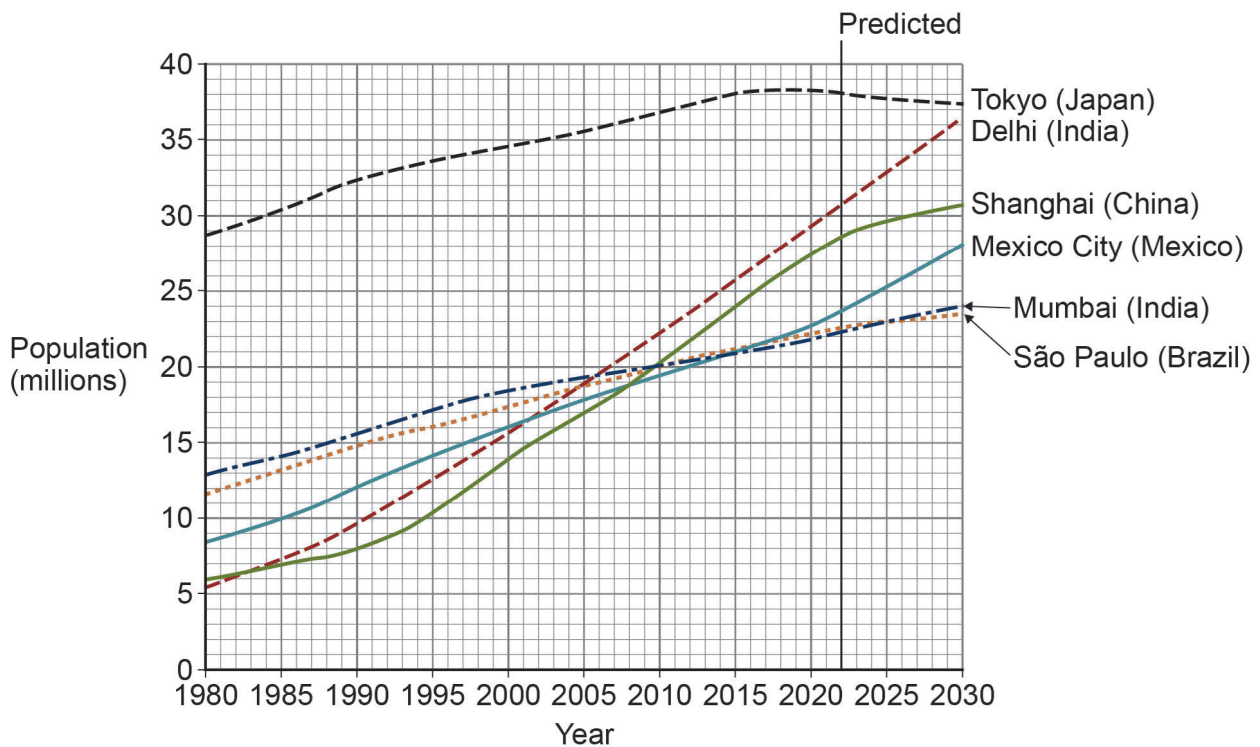


WRONG METHODS



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.

Study **Figure 1**, a graph showing population change in six of the largest global cities.**Figure 1****0 1 . 1**

Which city had the largest population increase from 1980 to 2022?

[1 mark]

0 1 . 2

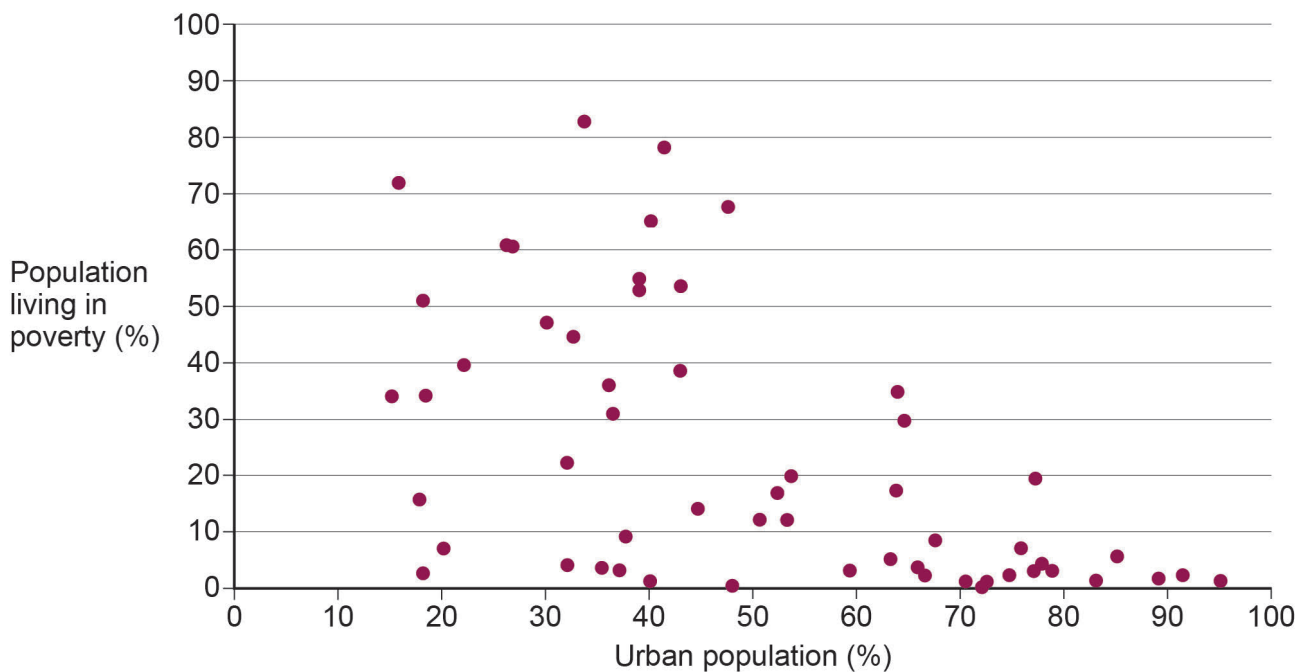
Suggest **two** reasons for the growth of cities in LICs/NEEs.

[2 marks]

1 _____

2 _____

Study **Figure 2**, a scattergraph showing the relationship between the percentage of population living in poverty (%) and percentage of urban population (%) in 2016.

Figure 2

0 1 . 3

Draw a line of best fit on **Figure 2**.

[1 mark]

Question 1 continues on the next page

Turn over ►



0	1	.	4
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Describe the relationship between the percentage of population living in poverty and the percentage of urban population as shown in **Figure 2**.

[2 marks]

0	1	.	5
---	---	---	---

Explain how urban planning has helped to improve the quality of life for many people in LICs/NEEs.

[4 marks]



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Study **Figure 3**, a diagram showing challenges created by urban growth.

Figure 3

The rapid and often unplanned urbanisation witnessed worldwide has led to increased pressure on the environment



0	1	.	6
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Explain how urban growth has created challenges for LIC/NEE cities.

Use **Figure 3** and your own understanding.

[6 marks]

[illegible]

Question 1 continues on the next page

Turn over ►



Study **Figure 4**, a photograph showing urban sprawl.

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Figure 4



01.7

What is meant by urban sprawl?

[1 mark]



0	1	.	8
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How might urban sprawl create environmental impacts?

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

[4 marks]

Question 1 continues on the next page

Turn over ►



[9 marks]

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Turn over for the next section

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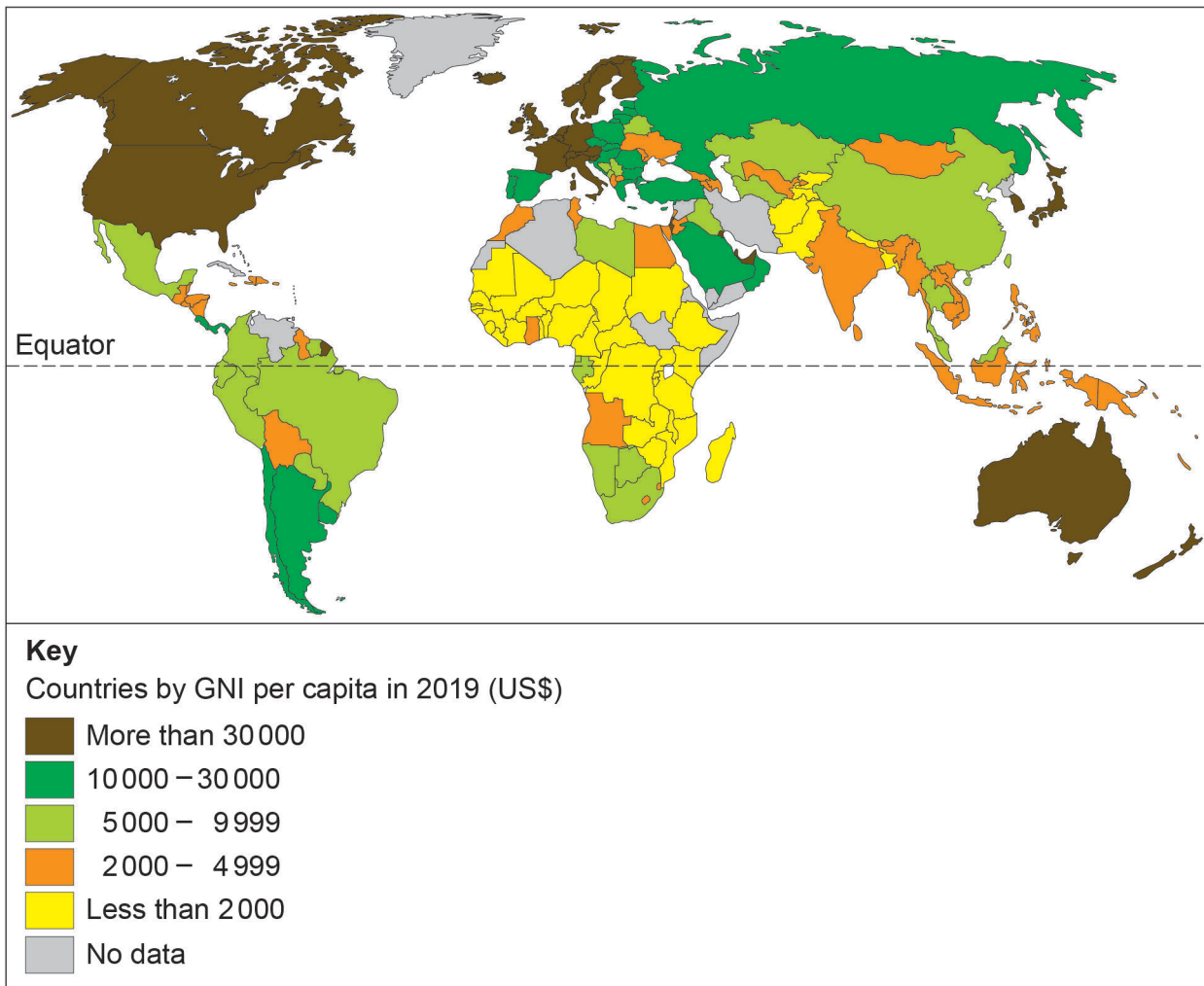
Section B – The changing economic world

Answer **all** questions in the spaces provided.

You must answer **all** questions in this section.

Study **Figure 5**, a map showing the global distribution of Gross National Income (GNI) in 2019.

Figure 5



0 2 . 1

Describe the distribution of countries with a GNI per capita of 2000–4999 (US\$) shown on **Figure 5**.

[2 marks]

0 2 . 2

Suggest **two** limitations of using GNI to compare levels of development.

[2 marks]

1

2

0 2 . 3

To what extent is there a link between the stages of the Demographic Transition Model (DTM) and the level of development?

[4 marks]

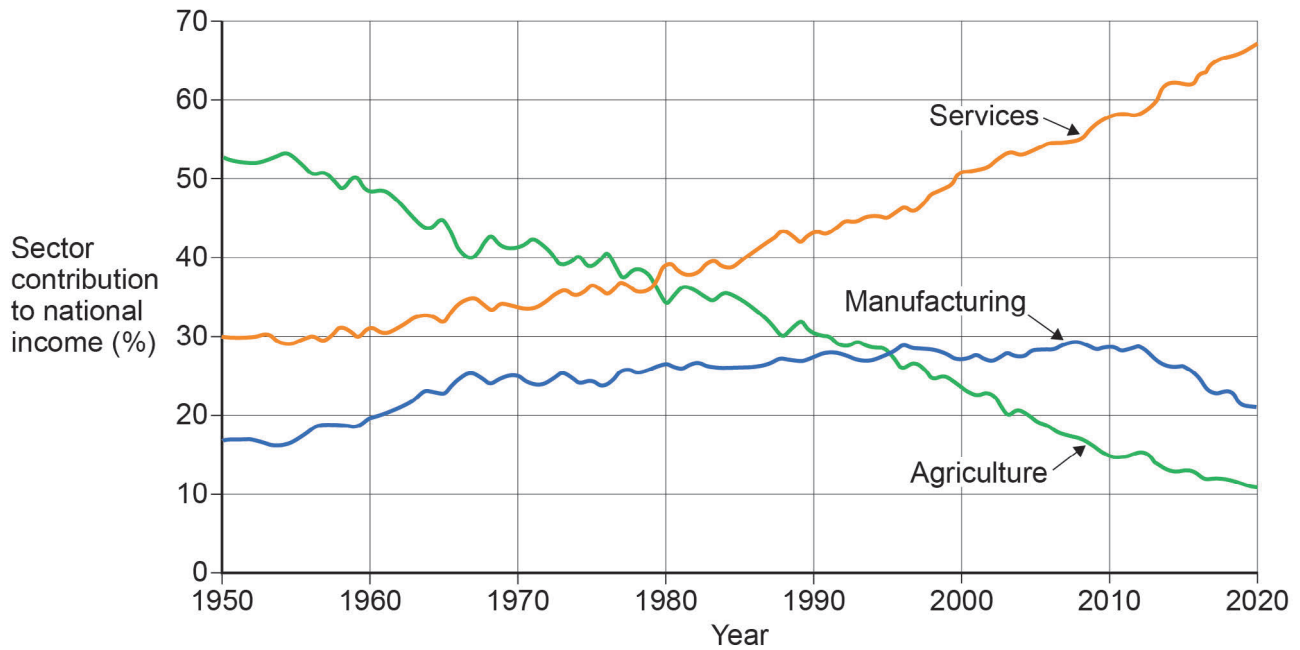
Question 2 continues on the next page

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Study **Figure 6**, a graph showing the changing industrial structure in India.

Figure 6



0 2 . 4

Using **Figure 6**, describe the changes to the industrial structure of India from 1950–2020.

[2 marks]

0 2 . 5

What is meant by the global development gap?

[1 mark]



[9 marks]

[illegible]

20

Section C – Global issues

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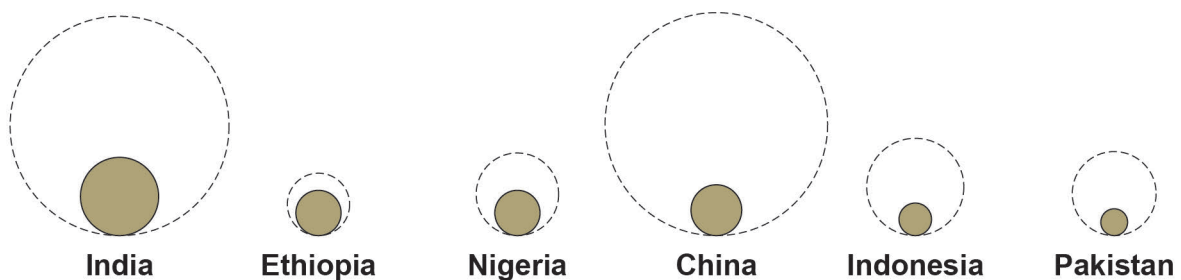
Water and energy resources or Population and communication

You must answer **one** question from this section, **either** Question 3 **or** Question 4.

Question 3 – Water and energy resources

Study **Figure 7**, a diagram showing the proportion of the population without access to clean water in a number of countries.

Figure 7



Key

○ Total population

● Number of people without access to clean water

0 3 . 1 Which country in **Figure 7** has:

[2 marks]

the largest number of people without access to clean water?

the largest proportion of population without access to clean water?



0 3 . 2

'Water availability is about both quantity and quality.'

Explain this statement.

[4 marks]

0 3 . 3

Explain the impacts of a large-scale water transfer scheme that you have studied.

[6 marks]

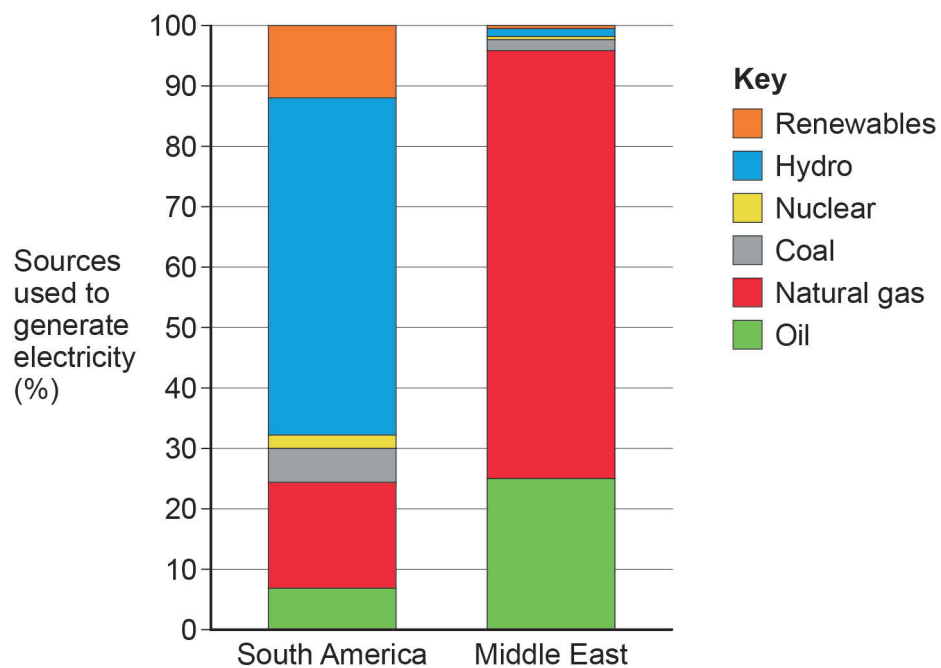
Question 3 continues on the next page

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Study **Figure 8**, a divided bar chart showing the percentage of the different sources used to generate electricity in South America and the Middle East (2019).

Figure 8



0 3 . 4

Compare the different sources used to generate electricity in the two regions shown in **Figure 8**.

[2 marks]



0 3 . 5

Suggest reasons for the differences in the sources used to generate electricity in the two regions shown in **Figure 8**.

[4 marks]

0 3 . 6

Suggest **two** ways that economic development increases energy consumption.

[4 marks]

1

2

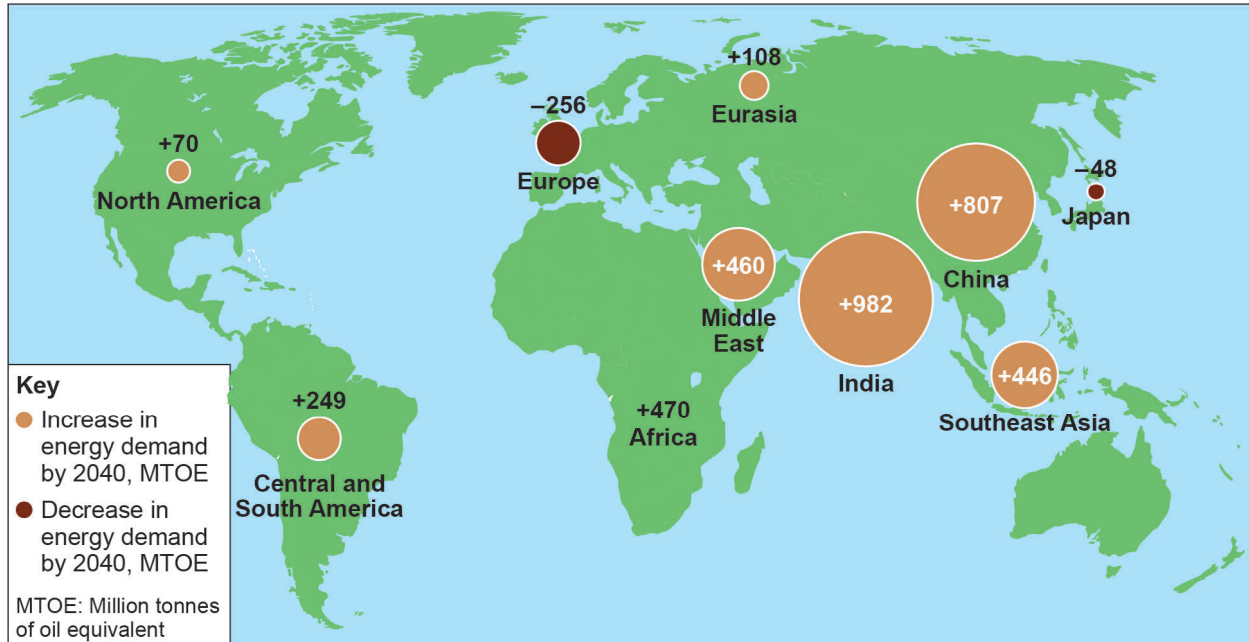
Question 3 continues on the next page

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Study **Figure 9**, a proportional symbol world map showing predicted change in energy demand in selected areas (2017–2040).

Figure 9

Changing energy demand around the world (2017–2040)



0 3 . 7 Use **Figure 9** to identify which one of the following statements is correct.

Shade **one** circle only.

[1 mark]

- A** Europe is the only area where energy demand is predicted to fall. ☐
- B** In the Middle East and Southeast Asia energy demand is predicted to increase by the same amount. ☐
- C** The largest predicted increase in energy demand is in India. ☐
- D** In North America the predicted increase in energy demand is higher than in Eurasia. ☐



In Africa, the predicted increase in energy demand between 2017 and 2040 is 470 MTOEs.

Shade **one** circle only.



To what extent might the growth in energy demand shown in **Figure 9** have negative environmental impacts?

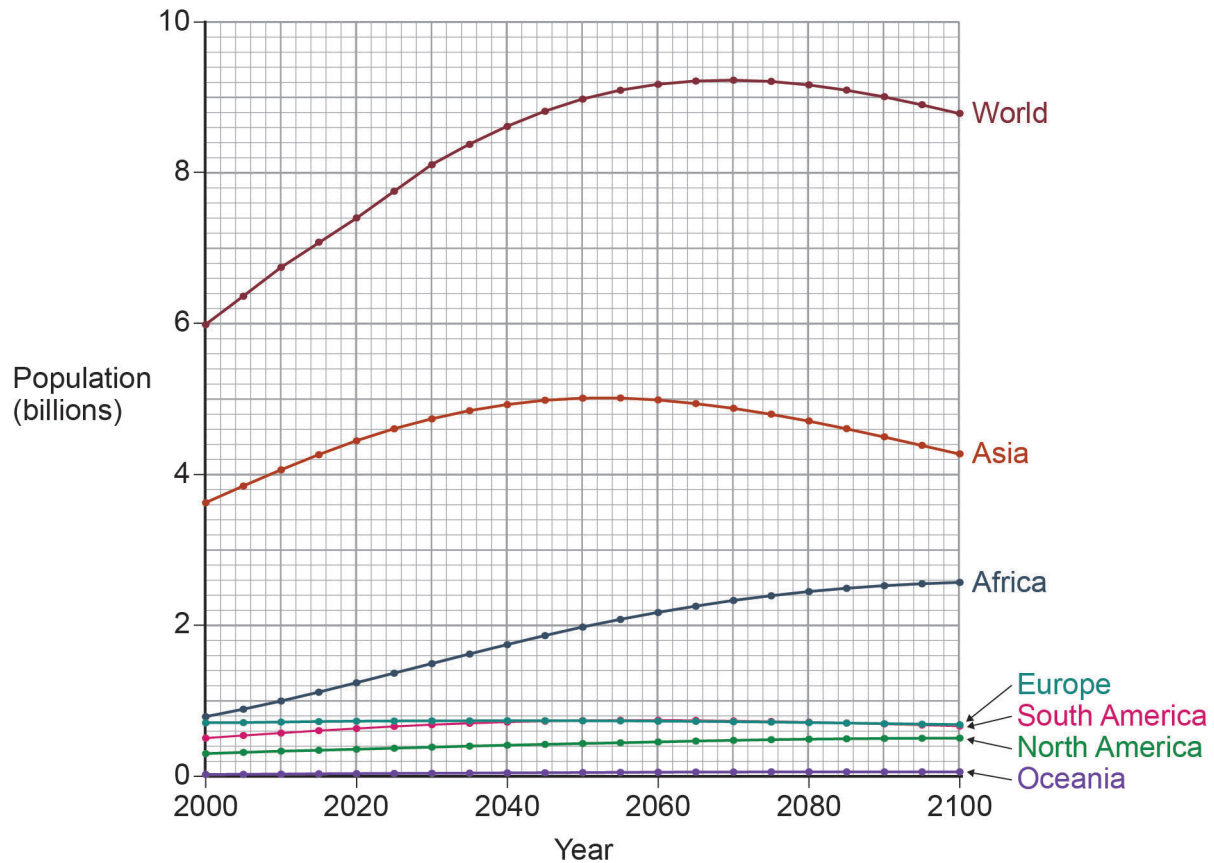
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Question 4 – Population and communication

Study **Figure 10**, a graph showing projected population change in different continents.

Figure 10

0 4 . 1

Which continent is projected to have the largest population increase between 2000 and 2100?

[1 mark]

0 4 . 2

Calculate how much the world population is projected to increase between 2020 and 2100.

[1 mark]

0 4 . 3 Suggest **two** reasons why population growth in Asia is projected to decline after 2050.
[4 marks]

1 _____

2 _____

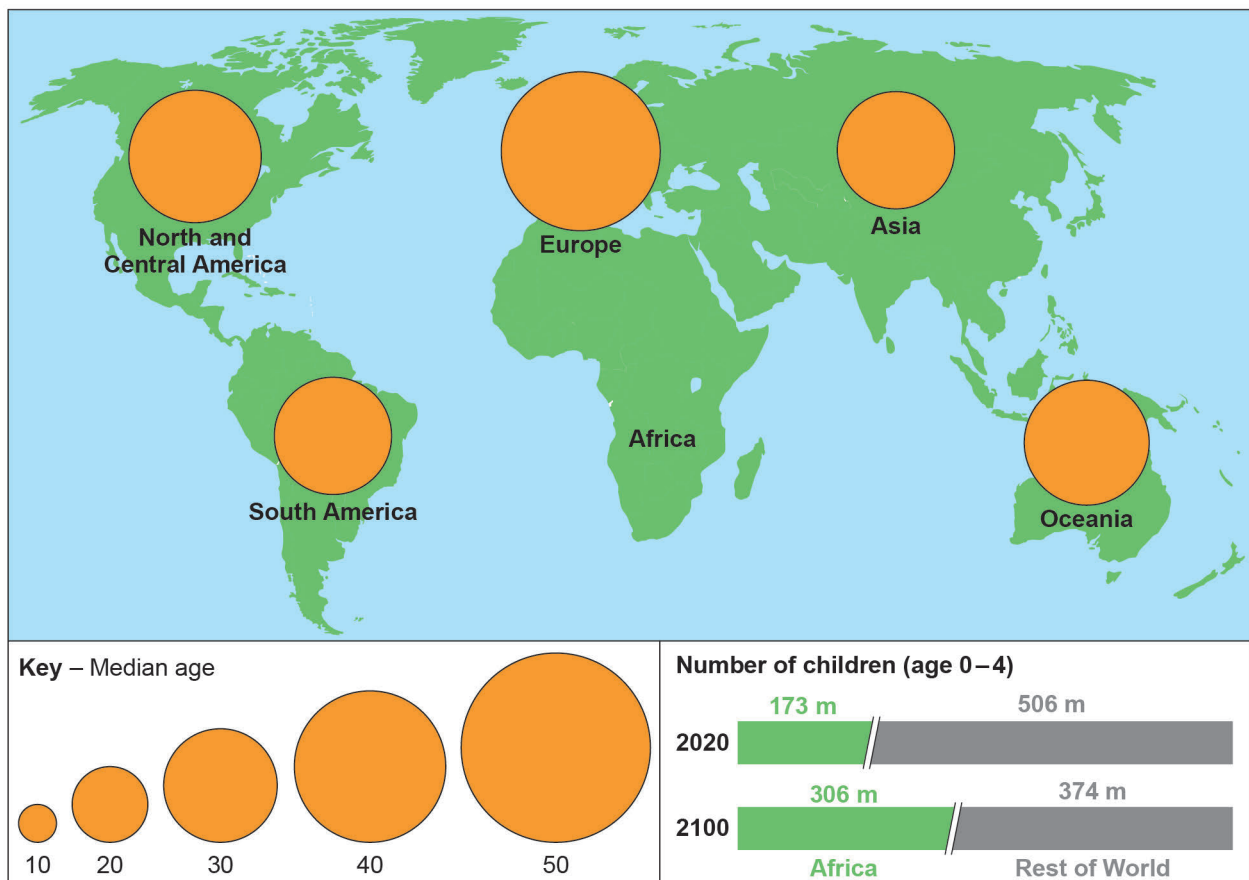
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Study **Figure 11**, a proportional symbol world map showing information about the median age of the population in different parts of the world.

Figure 11



0 4 . 4 Which area in **Figure 11** has:

[2 marks]

the highest median age of population?

the same median age of population as Asia?



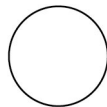
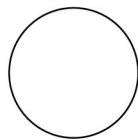
0 4 . 5

The median age of the population in Africa is 18 years.

Which of the following proportional symbols should be used to represent this information on **Figure 11**?

Shade **one** circle only.

[1 mark]

A B C D 

0 4 . 6

In 2100, what percentage (%) of the world's children (age 0–4 years) will live in Africa?

Shade **one** circle only.

[1 mark]

A 25%



B 35%



C 45%



D 55%



Question 4 continues on the next page

Turn over ►



04.7

Suggest how age structure might influence population growth.

[4 marks]

04.8

To what extent might a youthful population create positive economic impacts?

[6 marks]



Study **Figure 12**, a graph showing ownership of mobile phones in different countries.

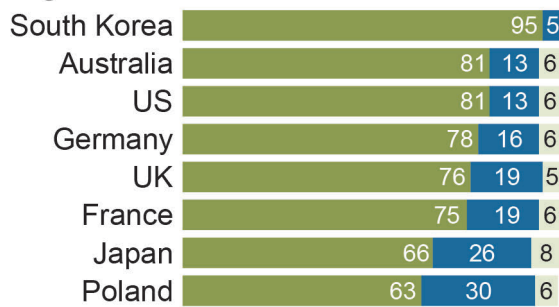
Figure 12

Mobile phone ownership (%) in different countries

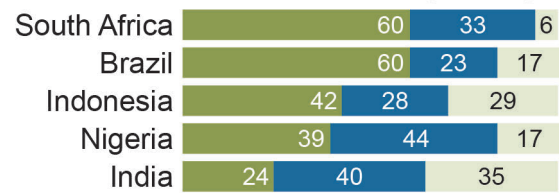
Key

- A smartphone
- A mobile phone that is not a smartphone
- No mobile phone

Higher income countries



Lower income countries/Newly emerging economies



0 4 9

'Access to technology is growing globally, but not always equally.'

Discuss this statement.

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

[4 marks]

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[6 marks]

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