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Diploma Programme
Programme du diplôme
Programa del Diploma

Geography
Higher level and standard level
Paper 2

12 May 2025

Zone A morning | **Zone B** morning | **Zone C** morning

Candidate session number

1 hour 15 minutes

Instructions to candidates

- Write your session number in the boxes above.
- Do not open this examination paper until instructed to do so.
- Section A: answer all questions.
- Section B: answer the question.
- Section C: answer one question.
- Answers must be written within the answer boxes provided.
- The accompanying **geography resource booklet** is required for this examination paper.
- The maximum mark for this examination paper is **[50 marks]**.

16 pages

2225 – 5310
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Section A

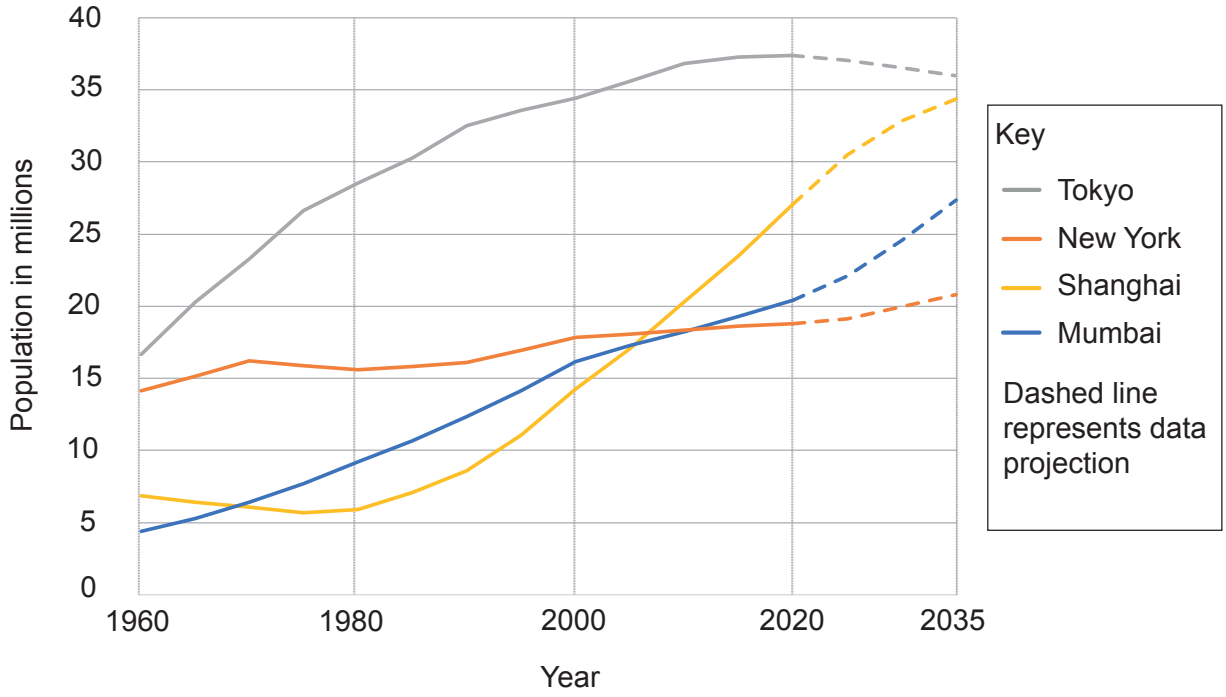
Answer **all** questions.

Answers must be written within the answer boxes provided.

When relevant, answers should refer to case studies or examples, and where appropriate include well-drawn maps or diagrams.

1. Changing population

The graph shows the actual and predicted population growth of four present-day megacities.



(a) (i) Estimate the population of New York in 2000. [1]

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. . . . . .

(ii) Identify the city with the fastest growth rate between 2000 and 2020. [1]

. . . . . .

. . . . . .

(This question continues on the following page)

(Question 1 continued)

(b) Explain **two** positive consequences for individuals resulting from the growth of megacities. [2+2]

Consequence 1: . . . . . .

. . . . . .

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Consequence 2: . . . . . .

. . . . . .

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(c) Explain **two** reasons why fertility rates often decline when economic growth occurs. [2+2]

Reason 1: . . . . . .

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Reason 2: . . . . . .

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2. Global climate — vulnerability and resilience

(a) Outline **two** components of the global energy balance. [2]

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(b) Suggest **two** ways in which human activity has changed terrestrial albedo. [2+2]

Way 1: . . . . . .

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Way 2: . . . . . .

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(This question continues on the following page)

(Question 2 continued)

(c) Explain **two** ways in which economic development has led to a change in greenhouse gas emissions. [2+2]

Way 1: . . . . . .

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Way 2: . . . . . .

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3. Global resource consumption and security

Refer to the map on page 3 of the accompanying resource booklet.

The map shows the food security situation in the Horn of Africa in 2022.

(a) Describe the distribution of areas of food emergency in Ethiopia. [2]

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(b) Explain how **two** different factors may reduce the food security of a country. [2+2]

Factor 1: . . . . . .

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Factor 2: . . . . . .

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(This question continues on the following page)

(Question 3 continued)

(c) Explain how national energy security may be disrupted by **one** environmental issue **and one** geopolitical issue. [2+2]

Environmental issue: . . . . . .

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Geopolitical issue: . . . . . .

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Section B

Answer the following question.

4. Refer to the infographic on pages 4–5 of the accompanying resource booklet.

The infographic shows some characteristics of population change in Australia.

(a) Using information from the map:

(i) identify which Australian state lost the most population from interstate migration between 2016 and 2021; [1]

. . . . . .

. . . . . .

(ii) state the range of interstate migration between 2016 and 2021. [1]

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(b) Suggest **one** reason why the information about the reasons for migration may be inaccurate. [2]

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(This question continues on the following page)

(Question 4 continued)

(c) To what extent does the evidence presented in the infographic support the view that the characteristics of population change in Australia are similar across all parts of the country? [6]

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Section C

Answer **one** question.

Where relevant, answers should refer to case studies or examples, and where appropriate include well-drawn maps or diagrams.

5. "The growth of the global middle class threatens the availability of water more than any other resource." To what extent do you agree with this statement? [10]

6. "The most effective way to manage resources sustainably is through the circular economy." To what extent do you agree with this statement? [10]

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References:

1. United Nations, Department of Economic and Social Affairs, Population Division (2019). *World Urbanization Prospects: The 2018 Revision*, Licensed under CC BY 3.0 IGO https://creativecommons.org/licenses/by/3.0/igo/. Source adapted.

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