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Diploma Programme
Programme du diplôme
Programa del Diploma

Geography
Higher level and standard level
Paper 2

5 May 2023

Zone A afternoon | **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

2223 – 5204
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Section A

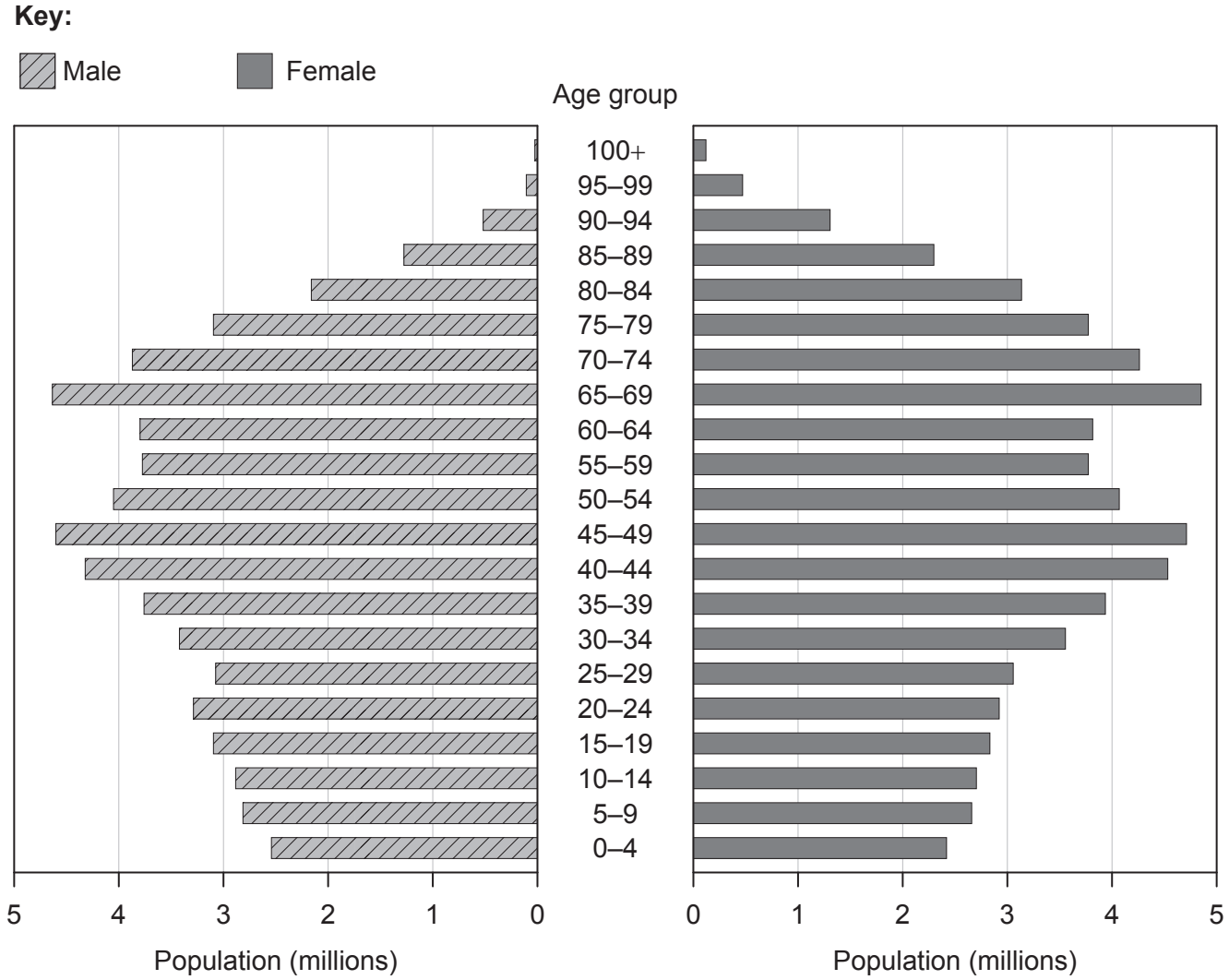
Answer **all** questions.

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 diagram shows the population pyramid for Japan in 2018.



(This question continues on the following page)

(Question 1 continued)

(a) (i) Identify the age group with the highest number of people. [1]

. . . . . .

. . . . . .

(ii) Estimate the total population, in millions, aged 0–14. [1]

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. . . . . .

(b) Explain **two** ways of managing the economic problems associated with an ageing society. [2 + 2]

Way 1: . . . . . .

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Way 2: . . . . . .

. . . . . .

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(This question continues on the following page)

(Question 1 continued)

(c) Explain how **two** physical factors can lead to uneven population distribution in **one** place you have studied. [2 + 2]

Physical factor 1: . . . . . .

. . . . . .

. . . . . .

. . . . . .

Physical factor 2: . . . . . .

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2. Global climate — vulnerability and resilience

(a) Outline what is meant by global dimming. [2]

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(b) Suggest **two** ways in which economic development leads to international variations in greenhouse gas emissions. [2 + 2]

Way 1: . . . . . .

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Way 2: . . . . . .

. . . . . .

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(c) Explain **two** reasons why wealthy people are less vulnerable to climate change. [2 + 2]

Reason 1: . . . . . .

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Reason 2: . . . . . .

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3. Global resource consumption and security

Refer to the map on pages 2–3 of the accompanying resource booklet.

The map shows oil production and consumption for selected countries in 2016. Only the names of the 10 countries with the highest consumption are shown.

(a) (i) Estimate the oil consumption of Japan, in million oil-equivalent tonnes, in 2016. [1]

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. . . . . .

(ii) Identify **one** country that consumes more oil than it produces. [1]

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(b) Explain **one** reason why oil consumption per person over the last 20 years has:

(i) decreased in some high-income countries; [2]

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(ii) increased in some middle-income countries. [2]

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(This question continues on the following page)

(Question 3 continued)

(c) Explain **one** environmental impact **and one** economic impact of international flows of waste on receiving countries. [2 + 2]

Environmental impact: . . . . . .

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Economic impact: . . . . . .

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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 global impacts of climate change.

(a) (i) Identify the extreme weather event in the Americas with the highest economic cost in 2019. [1]

. . . . . .

. . . . . .

(ii) Identify the modal value, in billions, for the cost of floods in 2019. [1]

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. . . . . .

(b) Suggest **one** reason for the trend in weather-related disasters between 1980 and 2019. [2]

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(This question continues on the following page)

(Question 4 continued)

(c) To what extent does the evidence in the infographic support the view that the impacts of climate change are uniform? [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 policies used to manage natural population change are more successful than those used to manage climate change." To what extent do you agree with this statement? [10]

6. "The most important factor influencing the water–food–energy nexus is climate change." To what extent do you agree with this statement? [10]

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References:

1. CIA, 2019. The World Factbook: Japan. Available at: https://en.wikipedia.org/wiki/File:Japan_population_pyramid_(2018).jpg. Source adapted.