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**Geography**  
**Higher level and standard level**  
**Paper 2**

7 November 2024

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

Candidate session number

1 hour 15 minutes

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**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.
- The maximum mark for this examination paper is **[50 marks]**.



### 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

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

The chart shows the average life expectancy, in years, for six countries in 2021.

- (a) (i) Identify the country with the lowest life expectancy. [1]

.....  
.....

- (ii) Estimate the life expectancy of Kyrgyzstan. [1]

.....  
.....

- (b) Suggest **two** ways in which an ageing population can benefit a country. [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 **one** social consequence of voluntary internal migration in a source area **and** **one** social consequence in a destination area. [2+2]

Social consequence in source area: .....

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.....

Social consequence in destination area: .....

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2. Global climate — vulnerability and resilience

The table shows the effect of heatwaves on the mortality rates of older age groups in selected Mediterranean cities.

	% increase in mortality during heatwaves	
Age group	Males	Females
65-74	14.5	23
75-84	18.1	33
85+	32.3	35.9

(a) Briefly outline **two** characteristics of the mortality rates shown in the table.

[2]

Characteristic 1: .....

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.....

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Characteristic 2: .....

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(This question continues on the following page)



**(Question 2 continued)**

(b) Suggest **two** reasons why females in low-income countries are more at risk from the impacts of climate change.

[2+2]

Reason 1: .....

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Reason 2: .....

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(c) Explain **two** reasons why incoming solar radiation may vary.

[2+2]

Reason 1: .....

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Reason 2: .....

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3. Global resource consumption and security

(a) Outline **one** interaction that occurs within the water–food–energy nexus. [2]

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(b) Suggest **two** reasons why embedded water use has changed over time. [2+2]

Reason 1: .....

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Reason 2: .....

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(c) Explain **two** reasons why it can be difficult to implement a circular economy. [2+2]

Reason 1: .....

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Reason 2: .....

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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 issues relevant to climate change and some possible mitigation strategies.

(a) Describe the trends in carbon offsetting between 2010 and 2021. [2]

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(b) Outline **one** advantage **and one** disadvantage of using proportional symbols to display data on maps. [2]

Advantage: .....

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Disadvantage: .....

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(This question continues on the following page)









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16EP10

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16EP11

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**References:**

2. D'Ippoliti, D., Michelozzi, P., Marino, C. et al., 2010. The impact of heat waves on mortality in nine European cities: results from the EuroHEAT project. *Environ Health*, [e-journal] 9(37). <https://doi.org/10.1186/1476-069X-9-37>. Source adapted.

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