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

Thursday 13 May 2021 (morning)

Candidate session number

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1 hour

**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.
- 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 **[40 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

(a) Outline what is meant by “fertility rate”.

[2]

.....  
.....  
.....  
.....

(b) Suggest **two** reasons why fertility rates decline when the status of women is improved. [2+2]

Reason 1: .....  
.....  
.....  
.....  
Reason 2: .....  
.....  
.....  
.....

(This question continues on the following page)



12EP02

**(Question 1 continued)**

(c) Explain why some places have an uneven sex ratio as a result of:

(i) migration; [2]

.....

.....

.....

.....

(ii) an ageing society. [2]

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.....



12EP03

Turn over

**2. Global climate – vulnerability and resilience**

Refer to the map on page 2 of the accompanying resource booklet.

The map shows the land surface temperature anomalies for February 2017.

(a) Identify **one** region showing:

(i) an extensive positive anomaly of +12°C; [1]

.....  
.....

(ii) an extensive negative anomaly of -12°C. [1]

.....  
.....

(b) Outline how extreme warming can affect:

(i) the albedo of a region; [2]

.....  
.....  
.....  
.....

(ii) the operation of a feedback loop. [2]

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**(Question 2 continued)**

(c) Explain **two** ways in which climate change impacts upon ocean transport routes. [2+2]

Way 1: .....  
.....  
.....  
.....

Way 2: .....  
.....  
.....  
.....



12EP05

Turn over

**3. Global resource consumption and security**

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

The graph shows the growth of middle-class populations in selected Eastern European countries from 2001 to 2011.

- (a) Outline **two** differences in the growth of the middle-class population of Ukraine and Serbia.

[1+1]

Difference 1:	.....
	.....
Difference 2:	.....
	.....

- (b) Explain how the growth of a country's middle-class population can lead to:

- (i) changing diets;

[2]

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.....
.....
.....

- (ii) land-use pressures.

[2]

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.....

(This question continues on the following page)



12EP06

**(Question 3 continued)**

(c) Suggest **one** way in which greater use of renewable energy can:

(i) decrease the size of a nation's ecological footprint; [2]

.....

.....

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.....

(ii) increase the size of a nation's ecological footprint. [2]

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### Section B

Answer the following question.

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

The infographic shows aspects of gender equality in the United Arab Emirates (UAE).

(a) (i) Estimate the percentage of women employed in the public sector. [1]

.....  
.....

(ii) Determine the percentage of university graduates in the UAE who are men. [1]

.....  
.....

(b) According to the infographic, 46% of STEM (science, technology, engineering and mathematics) graduates are women. Explain how **one** presentation method could be used to illustrate the details shown. [2]

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12EP08



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12EP10

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12EP11

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12EP12