

**Environmental systems and societies**  
**Standard level**  
**Paper 1**

Friday 3 November 2017 (afternoon)

Candidate session number

1 hour

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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.
- Answer all questions. Refer to the resource booklet which accompanies this question paper.
- Answers must be written within the answer boxes provided.
- A calculator is required for this paper.
- The maximum mark for this examination paper is **[35 marks]**.



Answer **all** questions. Answers must be written within the answer boxes provided.

The resource booklet provides information on Iceland. Use the resource booklet and your own studies to answer the following.

1. (a) State **one** biome found in Iceland. [1]

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(b) With reference to **Figure 4(a)** identify **two** ways in which the climate of Iceland may limit productivity in the biome stated in (a). [2]

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2. With reference to **Figures 3(a) and 3(b)** describe the trends in Iceland's population dynamics. [2]

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3. (a) With reference to **Figures 6(a), 6(b), 6(c) and 7(b)** identify **two** ways in which vegetation cover has changed over time in Iceland. [2]

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(b) Outline **two** ways in which human activity may have increased soil erosion in Iceland. [2]

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(c) With reference to **Figures 6(c), 7(a) and 7(b)** explain the problems associated with land restoration in Iceland. [4]

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5. (a) (i) Identify **one** argument in favour of humans hunting puffins. [1]

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(ii) Identify **one** argument against humans hunting puffins. [1]

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(b) With reference to **Figure 8(c)** state the impact that an increase in the mackerel population might have on the Atlantic puffin population. [1]

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(c) Identify **two** reasons why the future size of the Atlantic puffin population is difficult to predict. [2]

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**(Question 5 continued)**

- (d) With reference to **Figure 8(d)** identify **two** factors which may account for the changes in total capture of Atlantic herring.

[2]

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- 6. (a) With reference to **Figure 9(a)** outline how Iceland's primary energy consumption has changed over time.

[2]

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- (b) With reference to **Figure 2 and Figure 9(c)** outline **two** possible reasons why energy demand declined in Iceland after 2008.

[2]

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