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Environmental systems and societies
Standard level
Paper 1

2 May 2025

Zone A afternoon | **Zone B** afternoon | **Zone C** 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.

1. With reference to **Figure 1(b)**, identify which type of vegetation is found on the South Island but not on the North Island. [1]

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2. (a) Outline why 100% of reptile, frog and bat species are unique to New Zealand, as shown in **Figure 2(b)**. [2]

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- (b) With reference to **Figure 2(c)**, identify the group of species which has the highest percentage in the 'not threatened' category. [1]

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- (c) Outline **two** ways in which climate change may impact the reptile populations in New Zealand. [2]

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3. (a) State **one** way different species of kiwi could be identified. [1]

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(b) Outline **one** advantage of using kiwi as a flagship species. [1]

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(c) With reference to **Figure 3(c)**, calculate the percentage decrease in the number of Southern brown kiwi between 2008 and 2018. [1]

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(d) Evaluate the strategy used to conserve kiwi species. [3]

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4. Describe an impact of the change in forest cover shown in **Figure 4** on the hydrological system. [1]

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5. (a) Suggest **one** possible reason why the number of sheep farmed in the Canterbury region has changed as shown in **Figure 5(d)(i)**. [1]

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- (b) Explain how the change in cattle numbers since 1990 shown in **Figure 5(d)(ii)** may impact soil properties. [2]

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- (c) Outline a possible impact of growing wheat and barley on soils in the Canterbury Plains. [1]

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- (d) Describe **two** conservation strategies that could be used to prevent soil degradation from farming in the Canterbury Plains. [2]

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6. (a) With reference to **Figure 6**, calculate the crude death rate (CDR) per 1000 people for the year 2022. [1]

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- (b) Outline how the total fertility rate of New Zealand shown in **Figure 6** will influence its future population. [1]

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7. (a) State the name of **one** greenhouse gas produced by dairy cattle. [1]

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- (b) With reference to **Figure 7(c)**, identify which sector is predicted to reduce its energy use between 2020 and 2050. [1]

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- (c) With reference to **Figures 7(a), 7(b) and 7(c)**, evaluate New Zealand's approach to mitigating climate change. [4]

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