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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(c)**, identify **one** type of vegetation that is found on the North Island but not on the South Island. [1]

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2. (a) Outline **two** factors that may have contributed to the large number of species only found within New Zealand. [2]

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- (b) With reference to **Figure 2(c)**, identify the group of species most 'at risk of becoming threatened'. [1]

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- (c) Suggest **one** reason why there is insufficient data available to categorise the conservation status of a large proportion of marine mammals, as shown in **Figure 2(c)**. [1]

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3. (a) State **one** factor which could have contributed to the Black stilt being classified as 'critically endangered' on the IUCN Red List. [1]

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(b) With reference to **Figure 3(b)**, calculate the percentage increase in the number of Black stilt from 1981 to 2023. [1]

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(c) Evaluate the management strategy used to conserve the Black stilt. [3]

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4. Describe **two** ecological impacts of the change in forest cover in New Zealand as shown in **Figure 4**. [2]

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5. (a) Explain **three** ways farming within the Canterbury Plains could impact nearby rivers. [3]

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(b) (i) Describe a method that could be used to monitor biochemical oxygen demand (BOD) on the Selwyn (Waikirikiri) River within the Canterbury Plains. [3]

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(ii) Outline **one** disadvantage of using BOD measurements as an assessment of pollution. [1]

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(c) Suggest **two** ways water pollution from agricultural activity can be reduced within the Canterbury Plains. [2]

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6. (a) With reference to **Figure 6**, state which stage New Zealand would be on the Demographic Transition Model (DTM). [1]

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(b) Outline **one** limitation of using the Demographic Transition Model (DTM) in predicting the growth of the population of New Zealand. [1]

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7. (a) With reference to **Figure 7(a)**, identify the sector which contributed the most to greenhouse gas emissions in New Zealand in 2019. [1]

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(b) Suggest **two** ways in which the use of renewable energy sources could be encouraged within New Zealand. [2]

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(c) Outline **one** possible disadvantage of New Zealand adopting the emission trading scheme (ETS). [1]

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08EP07

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