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Environmental systems and societies
Standard level
Paper 1

30 April 2026

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

Session number

1 hour

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Instructions to students

- 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(d)**, state the range of the monthly average temperatures throughout the year in Mauritius. [1]

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2. (a) With reference to **Figure 2(a)**, state **one** possible reason why the dodo became extinct by 1690 in Mauritius. [1]

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- (b) With reference to **Figure 2(b)**, calculate (to **two** decimal places) the percentage of flowering plant species that have become extinct in Mauritius. [1]

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- (c) Describe the relationship between population numbers and native forest cover as illustrated in **Figure 2(c)**. [1]

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- (d) Outline **one** way in which deforestation alters the way that carbon is stored in the ecosystem. [1]

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3. (a) Identify **one** reason why it is difficult to determine the exact population of the Mauritius kestrel.

[1]

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- (b) Describe how the Lincoln index could be used to estimate the number of Mauritius kestrels.

[2]

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- (c) With reference to **Figures 3(b) and 3(c)**, evaluate the programme used to conserve the Mauritius kestrel.

[4]

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4. (a) With reference to **Figure 4(a)**, calculate the natural increase rate of the population of Mauritius.

[1]

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- (b) Explain the possible reasons for the shape of the Age–Sex population pyramid in **Figure 4(b)**.

[3]

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5. (a) With reference to **Figure 5(a)** and **Figure 5(b)**, outline **two** possible impacts of growing sugar on local rivers systems.

[2]

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- (b) Describe **one** way in which the growing of sugarcane could contribute to soil degradation. [1]

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- (c) State how soil degradation from growing sugarcane could be reduced.

[1]

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6. (a) With reference to **Figure 6(c)**, outline **one** possible reason for the change in the production of fish in Mauritius between 2010 and 2021. [1]

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- (b) Explain how fishing around the coast of Mauritius could be managed sustainably. [3]

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7. (a) With reference to **Figure 7(a)**, outline **one** advantage and **one** disadvantage of solar energy as a renewable source of energy. [2]

Advantage:	
Disadvantage:	

- (b) Suggest **one** way in which the energy efficiency target stated in **Figure 7(b)** could be met. [1]

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8. Outline why the ecological footprint for Mauritius has changed over time, as shown in **Figure 8(b)**.

[2]

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9. Using the information in the resource booklet, discuss whether Mauritius's commitment to sustainability is effective.

[6]

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08EP07

Please **do not** write on this page.

Answers written on this page
will not be marked.



08EP08