

Foundation Separate version — Higher Tier (★) questions removed.

**Q1. Explain why maintaining biodiversity is important. Give THREE reasons.**

**[3 marks]**

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**Q2. Evaluate TWO methods of conserving biodiversity.**

**[4 marks]**

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**Q3. Describe what a seed bank is and explain its importance.**

**[2 marks]**

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**Total: 9 marks**

**Q1 (3 marks)**

*Explain why maintaining biodiversity is important. Give THREE reasons.*

- Ecosystem stability: high biodiversity makes ecosystems more resilient to disruption [1]
- Source of food, medicine and raw materials [1]
- Ethical/intrinsic value — every species has inherent right to exist [1]

**Q2 (4 marks)**

*Evaluate TWO methods of conserving biodiversity.*

- Nature reserves: protect habitats from development [1]; may be too small for viable populations / cannot prevent climate change effects [1]
- Captive breeding: prevents extinction, enables reintroduction [1]; animals may lose natural behaviours; limited genetic diversity in small captive populations [1]

**Q3 (2 marks)**

*Describe what a seed bank is and explain its importance.*

- A facility that stores seeds of many plant species at low temperature [1]
- Preserves genetic diversity and provides insurance against extinction — seeds can be used to restore lost populations [1]