

**Question 28** (10 marks)

- (a) Explain a strategy that farmers use to manage the sustainability of water resources for agricultural production. **3**

The use and building of dams is a strategy that farmers use to manage the sustainability of water by pumping limited amounts of water from dams to irrigate crops in moderation. Also ~~by~~ calculating the amount of water the crop a farmer plans to plant allows him to manage how much he plants so that a suitable amount of water remains in his dam.

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Question 28 (continued)

- (b) For a soil degradation problem, explain farm management practices that have contributed to the problem and a procedure that can be used to alleviate the problem.

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A soil degradation problem such as ~~with~~ erosion can be managed on a farm in many ways. The problem is caused by cultivation of the land and deforestation of slopy regions, causing the top soil to be taken away by means of wind and rain. This problem can be fixed by revegetation of these slopy areas and low grazing <sup>capacity</sup> with light <sup>for</sup> animals with erosion along creek line due to banks being run down with grazing and water access. This can be alleviated by reducing the access and planting <sup>up</sup> trees along the side of the creek to hold the banks together. A management organisation that can help with this problem by planting shrubs in problem areas and reclaiming unworkable land by adding native grasses and other grasses that <sup>don't</sup> compete for nutrient allowing ~~of~~ light grazing to take place in these areas is Landcare.

End of Question 28