

2010 HIGHER SCHOOL CERTIFICATE EXAMINATION

Biology

Section I – Part B (continued)

Question 27 (3 marks)

- (a) Outline examples of effective quarantine regulations in Australia that protect animal and plant health. Give one example for each.

- (i) animal health

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Mad cow disease - muscle - washing disease affecting cattle. Quarantine methods include ~~Has been very effective of~~ checking machinery & soil to ensure it doesn't contain any mud, ^{forbidding} ~~preventing~~ entry of diseased cows & cattle. ^{isolation of any imported} ~~observation~~ cattle & cows to ensure they are not carrying any disease.

- (ii) plant health

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Sorghum downy mildew - ~~at~~ inspecting plant cuttings entering Australia to ensure that they do not have any weeds, ~~forbidding~~ entry of any seeds

- (b) Using one of your examples, explain why this method is effective.

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Quarantine methods of mad-cow disease are extremely effective as the disease has not entered Australia.

Strict & regulated entry of cattle, machinery & food items protect Australian agricultural industries keeping them relatively disease-free of the air-borne virus.