

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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All domestic animals being brought into Australia must undergo a period of quarantine to determine whether they are carrying any infectious diseases which must be treated before they can enter so as to prevent them from passing the diseases to other Australian animals.

(ii) plant health

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A fruit fly exclusion zone was developed around fruit growing regions in New and Victoria so where all fruit must be disposed of before entering the area to prevent fruit containing the fruit fly from other regions such as Queensland entering the area which thus protects the plants in this area from the fruit fly disease.

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

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Quarantining domestic animals for a period of several weeks before they enter Australia is effective as it allows sufficient time that the animal will begin to show symptoms of any disease it has contracted. This allows the disease to be treated before the animal enters the country. This thereby prevents new diseases such as rabies which have never kept out of Australia from entering and infecting our animals.