

UNIVERSITY OF BRITISH COLUMBIA
FACULTY OF LAND AND FOOD SYSTEMS

APBI 328/BIOL 317 - Weed Science
Final examination

Maximum time: 2.5 hours

Maximum marks: 100

Answer all questions.

- (18) 1. Describe six cultural and mechanical options to control wild oats (*Avena fatua*) in crop production systems. Your answer should include advantages and disadvantages of each control option.
- (16) 2. Compare strategies for orchard floor vegetation management and weed management in vegetable crops. Your answer should include a discussion of the problems caused by orchard floor vegetation and by weeds in vegetable crops.
- (18) 3. Compare herbicidal symptoms of dicamba, trifluralin, and simazine in relation to their mechanisms of action.
- (16) 4. Grazing animals normally avoid poisonous weeds but under certain conditions livestock poisoning by weeds is more likely to occur. Discuss these conditions.
- (16) 5. A Lower Fraser Valley farmer who used glyphosate for pre-plow weed control would like to know why she is getting poor control of Canada thistle and quackgrass. What possible reasons would you discuss with this farmer?
- (16) 6. Briefly discuss any two of the following:
 - (a) Secondary seed dormancy.
 - (b) Role of Casparian strip in herbicide uptake.
 - (c) Mushroom control in lawns.