

**CANADIAN BOARD OF EXAMINERS FOR PROFESSIONAL SURVEYORS**

**E3 – ENVIRONMENTAL MANAGEMENT**

October 2019

**Note: This examination consists of 6 questions on 1 page. Please read each question carefully before answering!**

Q. No	Time: 3 hours	Marks	
		Value	Earned
1.	Some scientists have advocated massive planting of trees to combat climate change. Explain how this may occur. Consider short- and long-term implications.	15	
2.	An integrated chicken processing plant is being considered on the outskirts of a mid-size Canadian city. The facility will slaughter, eviscerate (remove guts), wash, butcher, wash (again), package and freeze chicken products. Discuss the various environmental impacts of this hypothetical plant. Use headings to organize your answer. Which ones do you think would be the most important?	20	
3.	A company is preparing to purchase a 0.75 ha plot of land for an undisclosed industrial development. As part of their due diligence, they have hired an environmental consulting firm to test the soil. The firm found that in 12 test holes, all soil samples met the provincial standards for industrial land, except for one, which slightly exceeded standards for certain metals. Describe the options that are available to the company.	20	
4.	Dairy farms produce large quantities of manure. Where such concentrations are allowed to take place on land containing an unconfined aquifer: a) what are the potential impacts on water quality? b) how can they be mitigated?	5 10	
5.	In many, if not all, national parks you will encounter signs stating: “Do not feed wild animals”. Give at least three reasons why these signs are justified. Provide examples for each reason.	15	
6.	In an undeveloped lot that you are surveying you encounter a group of healthy native trees. In one of these trees there is a bird nest. Because they are inconveniently in the middle of the lot, they will affect the development plan. Your developer client wants to cut them down to make room for townhouses. List and describe the key pieces of information that will be needed before a decision can be made regarding the destruction or preservation of the tree or trees.	15	
<b>Total Marks:</b>		100	