

CANADIAN BOARD OF EXAMINERS FOR PROFESSIONAL SURVEYORS**E3 – ENVIRONMENTAL MANAGEMENT****October 2024**

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

<u>Q. No</u>	<u>Time: 3 hours</u>	<u>Marks</u>	
		<u>Value</u>	<u>Earned</u>
1.	A well-known expression in environmental science is: "...the solution to pollution is dilution". What does it mean? Is it true? Show examples. (Think carefully.)	15	
2.	A developer has been granted approval to build a small (12-unit) townhouse complex on a gentle slope that descends to a stream that is a popular destination for fly fishermen. Not surprisingly, there is some vigorous opposition to this development. What can the developer do to assuage the opponents and minimize any impacts on the stream and the fish?	20	
3.	Trans Mountain Corporation has recently completed a major upgrade of its 1150 km long pipeline carrying crude oil from Alberta to the Pacific Coast. Describe what you believe are the three most important environmental impacts associated with this project. How can the company mitigate some of these risks?	20	
4.	What is the difference between a confined aquifer and an unconfined aquifer? Why is it important?	10	
5.	A farmer has a low-lying field that has a high-water table and thus is not very productive for crops. He wants to import soil to raise the level and increase crop productivity. He arranges with a developer in the city to take the soil that has been excavated for building foundations. 1. What could possibly go wrong? 2. What should he do before entering into such an agreement?	15	
6.	It seems that everyone hates the carbon tax. But we are told it was implemented for a reason. Why did the Federal Government introduce this hated tax? Will it be effective? [Note: it doesn't matter if you are for or against the tax]	20	
Total Marks:		100	