

CANADIAN BOARD OF EXAMINERS FOR PROFESSIONAL SURVEYORS

E3 – ENVIRONMENTAL MANAGEMENT

March 2024

Note: This examination consists of 5 questions on 1 page.

Marks

<u>Q.No</u>	<u>Time: 3 hours</u>	<u>Value</u>	<u>Earned</u>
1.	<p>A developer gained conditional approval for a 30-unit subdivision and is planning to start construction on the site which is adjacent to a lake that is popular amongst fishermen and other recreationists. The proximity to the lake is an important selling feature, and increases the value of the properties; accordingly, the developer is willing to invest in meaningful measures to ensure that the project is environmentally sound.</p> <p>What measures should the Local Government require the developer to carry out to mitigate or minimize the environmental impact? Consider all phases of the project.</p>	20	
2.	<p>Define the following environmental concepts and provide an example:</p> <ul style="list-style-type: none"> a) Species at risk b) Vulnerable aquifer c) ‘Dilution is the solution to pollution’ d) Carbon sequestration and storage. 	5 5 5 5	
3.	<p>Some people oppose Federal Government measures to reduce greenhouse gas emissions, saying that Canada’s contribution is insignificant compared of that of China or the US.</p> <p>Do you agree or disagree? Support your answer, demonstrating your knowledge of Global Climate Change. [whether you agree will not affect your mark]</p>	20	
4.	<p>A Canadian city wants to increase the tree cover in its residential areas and has asked consultants to prepare a feasibility report. What are the advantages of an increased forest cover? What are the disadvantages? [hint: there are many advantages as well as disadvantages]</p>	20	
5.	<p>A logging company wants to harvest timber in a watershed containing numerous small streams that feed into a larger stream that is well-known for its steelhead trout population, which is popular with recreational fishermen taking advantage of the strictly enforced catch-and-release fishery. The Provincial Ministry responsible for forest practices has prepared detailed regulations that limit the amount of timber harvest and at the same time increases the costs of logging in the watershed. The company states that the value of the timber is far greater than the value of the few fish in the area they want to log (and in strictly dollar terms they are correct).</p> <p>Discuss the merits of their argument. [hint: this question is about values not forest practices]</p>	20	
Total Marks:		100	