

CANADIAN BOARD OF EXAMINERS FOR PROFESSIONAL SURVEYORS

E3 – ENVIRONMENTAL MANAGEMENT
Please read each question carefully before responding

March 2021

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

Marks

Q. No

Time: 3 hours

Value Earned

1.	<p>Imagine if, instead of being a professional surveyor, you were an environmental consultant, and you were charged with carrying out a routine Phase 1 ESA of a property.</p> <p>a) How you would complete this assignment, or what information would you collect?</p> <p>b) What liabilities would you (or your employer) carry after you submit your report?</p> <p>c) How would you minimize this liability?</p>	15 3 2	
2.	<p>Just outside a small Canadian city, an old two-lane bridge is approaching the end of its design life, and needs replacement. The bridge spans a small river that supports a popular sports fishery. The water flow in the river varies substantially through the year.</p> <p>a) What are the main environmental concerns?</p> <p>b) How would you address them?</p>	10 10	
3.	<p>Canadian cities vary in the amount of tree cover within their boundaries. Imagine that in your city or town there is a movement to support policies or measures to increase tree cover on public land (e.g.: streets, parks, civic centres).</p> <p>a) What are the benefits of increasing tree cover?</p> <p>b) What are the costs?</p>	10 10	
4.	<p>In the worlds oceans many fish stocks have declined over the past several decades, some catastrophically.</p> <p>a) What the main reasons for this?</p> <p>b) With what measures can this trend can be halted or reversed?</p>	10 10	
5.	<p>Imagine that you are surveying a vacant lot for a client who is planning to rezone and subdivide it for a mixed residential development. During the course of your work, you learn that this area has been identified by the Province as possible habitat for a red-listed species, in this case a species of bird; an otherwise non-descript sparrow, who uses the vegetation in one part of the property for nesting.</p> <p>When you report this to your client, he becomes enraged, saying that he is not going to forego this development project – and prospective profits - just for the sake of some stupid bird, and that this is just another example of over-regulation and government over-reach.</p> <p>What arguments can you make to support the protection of red-listed species in general, and this sparrow in particular?</p>	20	
Total Marks:		100	