

CANADIAN BOARD OF EXAMINERS FOR PROFESSIONAL SURVEYORS

E-3 ENVIRONMENTAL MANAGEMENT

March, 2013

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

Marks

Q. No

Time: 3 hours

Value Earned

1.	<p>Across North America, cities have expanded and suburbia has spread outwards from city cores. Discuss, in general terms, the potential adverse environmental effects of this expansion of large areas of low density housing into previously undeveloped areas at the outskirts of urban cores, with respect to:</p> <ul style="list-style-type: none"> a) Water quality b) Water quantity c) Biodiversity and wildlife habitat d) Greenhouse gas emissions 	20	
2.	<p>Discuss how modern urban planners are coping with these issues:</p> <ul style="list-style-type: none"> a) Water quality b) Water quantity c) Biodiversity and wildlife habitat d) Greenhouse gas emissions 	20	
3.	<p>Define the following:</p> <ul style="list-style-type: none"> a) Carbon sequestration b) Critical habitat c) Precautionary principle d) Unconfined aquifer e) LD50 f) <i>In situ</i> remediation g) Conservation covenant h) Oil-water separator i) Sustainable development j) Orphan site 	20	
4.	<p>The regulation of contaminated sites rests mainly with the Provinces and as such varies across Canada. All specify environmental site assessments that follow a broadly similar procedure. Discuss the phases or stages of investigation that are triggered when a property is suspected of being contaminated.</p>	20	
5.	<p>An actively growing Canadian town has decided to implement measures to minimize the siltation of its streams and waters. Accordingly it has enacted a bylaw requiring developers to draw up "Erosion and Sediment Control" plans. List the key points in such a plan, and describe how you would complete it.</p>	20	
Total Marks:		100	