

CANADIAN BOARD OF EXAMINERS FOR PROFESSIONAL SURVEYORS**E3 – ENVIRONMENTAL MANAGEMENT****March 2025****Note: This examination consists of 5 questions on 1 page.****Important: read all questions carefully.**

<u>Q. No</u>	<u>Time: 3 hours</u>	<u>Value</u>	<u>Earned</u>
1.	a) What is Carbon Capture and Storage (CCS)? b) Will it help Canada meet its Paris agreement goals? Why or why not?	20	
2.	Are electric cars in your city or town better for the environment than regular internal-combustion gasoline cars? Consider all aspects of the comparison. (Your answer will be evaluated on the quality of your argument, not on whether you answer yes or no)	20	
3.	Imagine you live in a low-density neighbourhood in the suburbs of a Canadian city. The local government is promoting ‘densification’ to increase the supply of affordable housing, and wants to redevelop your neighbourhood with townhouse complexes and multistory apartment buildings with underground parking. This proposal has stimulated fierce opposition from local residents. Assuming all landowners are adequately compensated, what are the pros and cons of such a project?	20	
4.	Define the following terms, describe their geographical extent of their influence (i.e. where are they important) and explain their environmental significance: a) Urban heat island b) Aquifer depletion c) Critical habitat d) Tailings pond failure.	20	
5.	Imagine a stream (in your part of Canada) that at one time supported a healthy population of small non-sport fish. In the last 50 years the area through which the stream flows has been developed as a residential and commercial area. Monitoring has shown that the population of resident fish has significantly declined. A third of the length of the stream runs through culverts under roads and parking lots. Environmental advocates call for the local government to restore the stream. But city officials are reluctant to spend too much money (being aware that an increase in property taxes would not be popular). If you were in charge of the restoration how would you go about it (what actions or measures would you take)? What would be the desired outcome? Use your imagination in your answer.	20	
Total Marks:		100	