

CANADIAN BOARD OF EXAMINERS FOR PROFESSIONAL SURVEYORS

E3 – ENVIRONMENTAL MANAGEMENT

October 2020

Note: This examination consists of 6 questions on 1 page. Read each question carefully and ensure your answer reflects the question.

<u>Q. No</u>	<u>Time: 3 hours</u>	<u>Marks</u>	
		<u>Value</u>	<u>Earned</u>
1.	Discuss the SINGLE most important environmental effect of a) power from coal, and b) power from nuclear fission, in a modern Canadian context. Explain how these effects occur and how they affect the environment, including for example: air, water, climate, soil, ecosystems, wildlife and human health (but not necessarily all of these).	20	
2.	Briefly a) define the following and b) state why they are important in analysing trends in environmental quality in Canada. a) Habitat b) Permafrost c) Hydraulic fracturing d) Carbon storage e) Algal blooms f) Pollinator decline g) Extirpation h) Methane i) Thermal pollution j) Mine reclamation	3 3 3 3 3 3 3 3 3	
3.	In the US (but not yet in Canada), various agencies are participating in a movement to dismantle dams on rivers . What are the various reasons for doing this? What are the major problems associated with this movement?	15	
4.	Canada is an oil-rich nation, but has trouble getting this product to international markets. Discuss the relative environmental and safety merits of transporting oil by pipeline, rail, or highways.	15	
5.	Why are plastics an environmental problem? Consider local, national and global scales.	10	
6.	Many environmental scientists are concerned about Ocean Acidification . Why does this occur and why is it important?	10	
Total Marks:		100	