

CANADIAN BOARD OF EXAMINERS FOR PROFESSIONAL SURVEYORS

E3 – ENVIRONMENTAL MANAGEMENT

March 2023

Note: This examination consists of 5 questions on 1 page. Please read all questions carefully.

| <u>Q.No</u> | <u>Time: 3 hours</u> | <u>Marks</u> | |
|-------------|--|--------------|---------------|
| | | <u>Value</u> | <u>Earned</u> |
| 1. | Landfill crisis: We hear a lot about ‘recycle, reuse, reduce’. One big rationale is that our landfills are overloaded, but given that landfills occupy less than 1% (actually a lot less) of Canada’s land area, is this really a ‘crisis’? Considering this, provide good reasons why we should recycle, reuse and reduce. | 20 | |
| 2. | Forestry and mining are very important economic activities in Canada. But both are under intense scrutiny by environmentalists. Identify the three most important environmental impacts associated with each of these sectors. Explain why are they important. | 20 | |
| 3. | Some local governments in Canada require that new developments (industrial, commercial or residential) allow only a small percentage increase in the amount of surface water flow from exiting the site (over the pre-development condition). What are the main reasons for this kind of regulation? How can it be achieved? | 20 | |
| 4. | There has been significant songbird decline all over North America since the 1970s. The most affected of these birds are migratory, wintering in the southern US, Central America and South America, and then returning to Canada to breed. Suggest the most important reasons for this widespread decline and explain how they affect songbird populations. (Hint: there are lots of reasons) | 20 | |
| 5. | Oil pipelines do not seem to be very popular in Canada, at least outside of Alberta. What are the main environmental problems with oil pipelines and how can these problems be mitigated or ameliorated? | 20 | |
| | Total Marks: | 100 | |