

**CANADIAN BOARD OF EXAMINERS FOR PROFESSIONAL SURVEYORS  
ATLANTIC PROVINCES BOARD OF EXAMINERS FOR LAND SURVEYORS**

**SCHEDULE II / ITEM 4**

**October 2007**

**LAND USE PLANNING AND ENVIRONMENTAL MANAGEMENT**

**Note: This examination consists of 9 questions on 1 page.**

**Marks**

<u>Q. No</u>	<u>Time: 3 hours</u>	<u>Value</u>	<u>Earned</u>
1	Many areas of Canada have experienced steady residential and industrial growth in close proximity to municipalities which provide certain "soft" services without benefit of having these areas included in the municipal taxation base.  List some examples of these services and some options for minimizing their cost impact.	15	
2	Define the term "Site Planning".	5	
3	Identify the four main phases of a project's development considered in a life cycle approach.	12	
4	For residential subdivision development in northern Canada, the notion of "all the land in the world" meets the harsh reality of high capital and operating costs, resulting in normal or smaller than normal size building lots.  Identify some site location and design techniques which can be employed to try to offset this result.	15	
5	Explain the "zero lot line" concept and discuss its impact on land use economy. Draw a neat sketch illustrating an example.	10	
6	Provincial and territorial governments have over the years provided cottage lot subdivisions for summer recreational development. As urban development increases, and with the accompanying increase in real estate values, many residents have "cashed out" and converted their summer cottage properties into principal residences.  Describe some of the problems this practice creates and suggest some steps which can be taken to mitigate them.	12	
7	Give the gross density numbers, in dwellings per hectare, that would typically be encountered in the following types of occupation:  a. farmland  b. single family  c. multiple family (multi-storey)	9	
8	Your summer land survey project involving 12 field staff and two camp support staff will be undertaken from a remote bush camp near the shore of a lake large enough to accommodate twin-engine aircraft for ferrying supplies and fuel. A contract helicopter will also be based on the site for daily transport of the survey parties.  Develop an environmental action plan in point form demonstrating how you will minimize environmental impact and damage in a manner consistent with sound land use principles.	12	
9	A 10 ha gravel source is identified in a treed area near a public highway having both straight and curved alignment sections in its proximity.  Draw a neat sketch showing some relevant design features for the proposed quarry site and access road from the highway.	10	
	<b>Total Marks:</b>	100	