

**ASSOCIATION OF CANADA LANDS SURVEYORS - BOARD OF EXAMINERS
WESTERN CANADIAN BOARD OF EXAMINERS FOR LAND SURVEYORS
ATLANTIC PROVINCES BOARD OF EXAMINERS FOR LAND SURVEYORS**

**SCHEDULE II / ITEM 4
LAND USE PLANNING AND ENVIRONMENTAL MANAGEMENT**

March 2005

Note: This examination consists of 8 questions on 1 page.

Marks

Q. No

Time: 3 hours

Value Earned

1	What gross and net densities (du/ha) best characterize the average single-family dwelling community?	10	
2	Let us consider a building lot measuring 18 metres (m) (frontage) by 30 metres (depth). Would you recommend a 15 metre setback for a single-family dwelling measuring 12 m (frontage) by 9 m (depth)? Why? What lateral setbacks would you favour? Explain your answers with a sketch.	15	
3	What solution would you suggest to facilitate vehicular circulation at the end section of a public road? Illustrate your answer.	10	
4	To what region in the Northwest Territories does the Canadian Environmental Assessment Act apply?	5	
5	Canadians are more and more concerned about contamination of soil and groundwater. This problem appears to be growing. As communities expand: a) do you think that urban growth is necessarily the cause of the problem? b) what solution can you suggest in terms of environmental site assessment (phases or steps)?	5 5	
6	What main qualifications should the ideal consultant have in order to undertake an environmental assessment study (ESAS)?	10	
7	As a professional Land Surveyor, you are requested by a local government to suggest actions in order to precisely identify on the ground two flood lines (20 and 100 year occurrence). What steps or procedures do you suggest?	20	
8	Large scale potential disaster areas (low lands) are sometimes devastated by major floods, for example, following a Tsunami wave. What would you recommend in terms of future occupation or rebuilding of such lands, considering the long term security of the population as well as their economic growth?	20	
Total Marks:		100	