

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

SCHEDULE II / ITEM 4

October 2008

LAND USE PLANNING AND ENVIRONMENTAL MANAGEMENT

Note: This examination consists of 9 questions on 2 pages.

Marks

<u>Q. No</u>	<u>Time: 3 hours</u>	<u>Value</u>	<u>Earned</u>
1	List in point form the eight stages of the typical site planning cycle in which the designer is properly involved, as stated by authors Kevin Lynch and Gary Hack in <u>Site Planning</u> .	12	
2	<p>An undeveloped remainder of a parcel of almost level land in a residential neighborhood of a major southern Canadian city is proposed for development. The city has given conditional approval to develop the parcel for single-family residences which is permitted by the Zoning Bylaw which requires that site density not exceed 10 families per hectare.</p> <p>The parcel of land is triangular in shape with sides approximately 215 metres in length and has an area of approximately 2.0 ha. Two sides of the triangle approximate the top of the treed slope of a stable ravine and the third side fronts on an east - west arterial road with a right of way 25 metres wide and a paved roadway having one traffic lane in each direction. The area fronting the site is also level and no sight obstructions are posed by topography. There is a residential street intersecting the arterial road at right angles across from the site which is located at approximately the one-third point along the frontage of the triangular site.</p> <p>Full utilities are buried in the right of way of the arterial road and present no capacity problems for the anticipated size of the development.</p> <p>Prepare a neatly drawn conceptual layout for the proposed development at a suitable scale, keeping the arterial road aligned parallel to one edge of your answer sheet. Show typical dimensions of any design features you incorporate.</p>	20	
3	<p>For the site described in Question 2 above, describe what additional factors your design have to take into account if:</p> <p>a. the site was located in a northern Canadian climate.</p> <p>b. the site was in southern Canada but fronted an arterial road with two traffic lanes in each direction experiencing heavy truck traffic.</p>	3 3	
4	<p>Kevin Lynch and Gary Hack in <u>Site Planning</u> acknowledge that "...each agency charged with reviewing an EIS has its own guidelines about form, contents, and the process of preparation, circulation and filing ..." and go on to suggest a typical table of contents containing seven items for an EIS.</p> <p>List in point form four of these seven items.</p>	8	
5	<p>As both traffic and real estate values in cities increase and commercial activities creep towards the suburbs, provision of parking in downtown cores becomes a greater challenge.</p> <p>a. List in point form four ways in which such parking may be provided.</p> <p>b. What are the recommended dimensions, in metres, of a typical parking space?</p> <p>c. Describe three situations which may require or permit these typical dimensions to be varied?</p>	8 4 6	
6	List the four broad categories of housing form.	8	

7	<p>Explain the following terms as they apply to site and community planning.</p> <ul style="list-style-type: none"> a. FAR b. lux c. grade separation d. OCP 	3 3 3 3	
8	<ul style="list-style-type: none"> a. Define the term "ecosystem". b. Define the term "sustainable development". 	3 3	
9	<p>Multi-season access roads and trails for resource exploration and development require special attention with respect to construction, operation and abandonment procedures.</p> <p>Give in point form, two best practices which should be followed for each of the following components of multi-season access roads.</p> <ul style="list-style-type: none"> a. surface preparation b. stream crossings c. erosion control d. maintenance, and e. putting the road to bed 	10	
	Total	100	