

**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 5

March 2003

LAND INFORMATION SYSTEMS

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

Marks

<u>Q.No</u>	<u>Time: 3 hours</u>	<u>Value</u>	<u>Earned</u>
1	A conventional paper map can be considered as a spatial database. How is a computerized spatial database similar to and different from a paper map?	12	
2	What are the technical and non-technical challenges facing the manager of a computerized LIS?	12	
3	Why does a GIS need to provide topological information? How does the GIS software manage topological data?	13	
4	What is metadata and how is it beneficial to users of LIS?	12	
5	What are the factors you have to consider when you share LIS data with other users? What are the tools and standards that help us share spatial data?	13	
6	What are the advantages of integrating GPS and GIS technologies?	13	
7	The idea of producing a high quality paper map from a large LIS database while the client is waiting is attractive but practically difficult. Would you agree or not? Explain why.	12	
8	What is an entity-relationship data model? How is it used in the design of a LIS database? How is it different from a relational data model?	13	
Total Marks:		100	