

**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
LAND INFORMATION SYSTEMS AND MANAGEMENT**

March 2002

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

Marks

Q.No

Time: 3 hours

Value Earned

1	There are many textbook-definitions of GIS, but do you think there is a working definition that one can use to test if a certain piece of software is a GIS or just some kind of mapping, drafting, image processing, or database management software?	13	
2	What are the steps involved in designing a computer-based LIS database using a particular piece of GIS software, starting with a conceptual database design without regard to software and ending with a logical database design specific to the GIS software?	13	
3	Your organization would like to computerize the LIS the first time. Describe the steps involved in evaluating and acquiring the proper GIS software.	12	
4	Discuss the current trend of storing minimum topological relationship in a LIS database and computing them on the fly when required.	13	
5	What are the factors that would make data from different LIS databases not to fit each other?	13	
6	What is metadata for a LIS database, and how can metadata help us share data?	12	
7	Under what condition can one use a single, uncorrected aerial-photograph to update a LIS database?	12	
8	Do you agree that cartographical and analytical needs of a computerized LIS database are sometimes in conflict? In other words, is it true that some of the characteristics of a LIS database that help to produce good maps could affect spatial analysis?	12	
Total Marks:		100	