

**The Universities Co-ordinating Council
Board of Examiners in Land Surveying**

**The Surveying Profession
(Closed Book Exam)**

Marks

April 1994

Time: 3 Hours

- 10 1) There have been several articles in recent issues of ALS News discussing the new "Systematic Practice Review Program". What is this new program and how does it function? What ALS body administers its operation? What new position was established to administer the program?
- 5 2) A recent article in the Autumn 1993 issue of Geomatica discussed Canada's Active Control System.
- 5 a) Briefly describe what an active control system is and how it works.
- 5 b) Assuming that one may be able to position points to the centimeter level in real-time sometime in the near future, how will this technology affect the age old discussion of "monumentation vs. coordinates"? Please discuss.
- 6 3) a) At a recent ALSA council meeting a recommendation of the Legislation committee that the Expanded Profession Initiative as outlined in the draft legislation of 1978 be discontinued was approved. Please comment on the term "expanded profession" and discuss council's decision.
- 2 b) Name one Land Surveyors Association in Canada which has adopted the "expanded profession" concept.
- 3 4) a) What is the purpose of the Manual of Good Practice?
- 2 b) Why is this manual not part of the Surveys Act?

- 5) Alberta Land Surveyors are required to carry professional liability insurance.
- 4 a) Why?
- 4 b) What constitutes professional negligence?
- 4 c) Please discuss the procedures that you think can be adopted by a survey firm to minimize the occurrence of errors and omissions.
- 4 d) What is the minimum level of liability coverage and the maximum allowable deductible requirements for an Alberta Land Surveyor?
- 4 e) As an Alberta Land Surveyor, you discover that you have done something or failed to do something which you expect, if discovered, might result in a claim against your firm. What do you do?
- 6) Information Resources Management Services is converting all primary surveying and mapping products to the NAD83 datum.
- 2 a) What does the acronym NAD83 mean?
- 4 b) What are the differences between the NAD27 and NAD83 datums?
- 4 c) Describe the procedure for converting mapping plane coordinates based on the NAD27 datum to mapping plane coordinates based on the NAD83 datum. When answering this question, assume that the National Transformation software package does not exist.
- 4 7) a) What is the purpose of the Alberta Land Surveyors' Code of Ethics?
- 5 b) One of the articles of the Alberta Land Surveyors' Code of Ethics is:
Professional Services
An Alberta Land Surveyor should assess and receive fair and just compensation from his client, commensurate with the

technical complexity, level of responsibility and liability potential of the services performed.

Please discuss this particular article.

- 4 c) Please name four other articles of the Alberta Land Surveyors' Code of Ethics.
- 4 8) Who are the members of the Canadian Council of Land Surveyors and what is its function?
- 6 9) a) Please define the practice of "land surveying" and the practice of "surveying" as it pertains to the Alberta Land Surveyors' Association.
- 3 b) Should an Alberta Land Surveyor be proficient in all areas of "land surveying" as it is defined above? Please discuss.
- 3 c) Should an Alberta Land Surveyor be proficient in all areas of "surveying" as it is defined above? Please discuss.
- 2 10) a) Where is the ALSA 1994 Annual General Meeting being held?
- 2 b) What birthday celebration is being held in conjunction with the AGM?
- 2 c) What year was the Alberta Land Surveyors' Association founded?
- 2 d) Who was the first president of the Alberta Land Surveyors' Association?