

Telemark University College

Faculty of Arts and Sciences

EXAM

IN

4501-002 ALPINE ECOLOGY

OCTOBER 23. 2015

Time: 4 hours

Language: English

Number of pages: 2 pages including the front page

Aid: English-dictionaries

Appendix: None

Questions

- Describe important ecological factors that can limit the elevational distribution of birch trees and forests.
- a) Describe patterns in plant establishment and soil development during a primary autogenic succession in the front of a retreating glacier.
 - b) Describe active and passive factors in alpine soil development.
- 3 a) Describe important ecological factors that affect the reindeer population at the Hardangervidda mountain plateau.
 - b) Describe biological and environmental factors characteristic for alpine lakes in Norway.
- 4 Explain the following terms briefly:
 - a) Permafrost
 - b) Chionophobous plant give some examples.
 - c) Forest limit ecotone (Alpine timberline ecotone)
 - d) Podzol
- 5 a) Describe criteria that can be used to separate between the Low alpine and the Middle alpine vegetation zone.
 - b) Describe floristic and environmental characteristics of Scandinavian snow-beds.