

APBI 200 - LAB 7 ASSIGNMENT

Section 1 – Soil horizons

Please answer the following questions:

1. What is the principal soil formation process that gives rise to:
 - a. Ae horizon
 - b. Bf horizon
 - c. Cy horizon

[3 points]

2. Give the most complete horizon designation (uppercase letter and lowercase suffix, if appropriate) for each of the following:
 - a. Solonetzic B: _____
 - b. eluvial horizon: _____
 - c. horizon with properties of A and B horizon superimposed: _____
 - d. B horizon with permanent or periodic intense anaerobic conditions: _____

[4 points]

Section 2 - Canadian Soil Classification System

Please answer the following questions:

3. Determine the soil order based on the soil horizon sequence and briefly explain your rationale:

a. 5-0 cm LFH 0-5 cm Ah 5-59 cm C	b. 4-0 cm LFH 0-6 cm Ahe 6-13 cm Bf1 13-47 cm Bf2 47-59 cm BC 59-101cm C
c. 0-14 cm Ah 14-29 cm Aeg 29-32 cm AB 32-52 cm Bg 52 + cm Cg	d. 0-13 cm Om 13-42 cm Oh 42-78 cm C

[8 points]

4. Explain what soil formation processes were responsible for formation of the Btg horizon of the soil monolith **no. 4-01** (see <http://monoliths.soilweb.ca/4-01/>) in the UBC's virtual soil monolith collection.

[2 points]

Required attachments:

Your answers regarding the three “mystery” soil monoliths including parent material identification.

[6 points]

Total for lab 7 assignment

[23 points]