## APBI 200 Lab 6 Assignment

1. F	ill in the blanks:
(a)	The forest floor refers to just organic (L, F, H) horizons, while forest humus forms include both forest floor (i.e., well drained organic horizons) and the horizon.
(b)	In poorly drained organic horizons, the Of horizon is high in  [Note this answer requires multiple words]
(c)	The Fm horizon is characterized by abundant and  [Note this answer requires multiple words]
(d)	The organic horizon is characterized by active mixing of organic and mineral material by
(e)	The mutually beneficial symbiotic relationship between a plant and a fungi is known as
(f)	Long threadlike <b>filaments</b> of fungi are called
(g)	<b>The network</b> of hyphae twisted together is known as
	[7 points]
2. Id	dentify the soil horizon according to the following descriptions:
(a) l	Dark colour, mineral particles apparent, granular soil aggregates present.
(b) ]	Dark colour, few mineral particles apparent, greasy.
(c) l	Dominated by brownish needles from a tree.  [3 points]
3. B	riefly describe differences between coniferous and deciduous litter and their relative decomposition s?
	help you answer this question, please watch " <i>In the Ecosystem</i> " video posted at
пцр	://forestfloor.soilweb.ca/definitions/forest-floor/)  [2 points]
( <u>htt</u>	The coniferous site at the UBC Farm, described in "In the Ecosystem" video clip p://forestfloor.soilweb.ca/definitions/forest-floor/), is unusual since it has little to no F horizon. What likely caused this?
nas	likely caused this?  [1 point]

5. Fill in the following table, highlighting key properties of each forest humus form order.

	Mor	Moder	Mull
Diagnostic horizon			
Key characteristics of diagnostic horizon			
Dominant decomposers			
Common vegetation			
			[6 points]

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- 6. Identify the forest humus based on the following descriptions:
  - (a) Loosely structured F horizon, gradual boundary between mineral soil and organic layers
  - (b) Abrupt boundary between mineral and organic layers
  - (c) Well decomposed organic matter incorporated in mineral soil horizon (Ah)

[3 points]

7. Briefly describe Frankia and their role in soils. [bonus mark for a picture taken in your lab – does not need to be from your sample]

[1 point]

## **Attachment:**

•Data Collection Sheet [3 points]

Total for lab 6 assignment [26 points]