

Name: \_\_\_\_\_ Lab section: \_\_\_\_\_

## Chapter 9 Quiz - Soil Water

1. What is the volumetric water content if the bulk density is  $1.33 \text{ g/cm}^3$  and the gravimetric water content is 0.25?
2. What is the depth of water in a foot of soil if the volumetric water content is 0.10?
3. Is available water primarily held in:
  - \_\_\_ Macropores (greater than  $100 \mu\text{m}$ )
  - \_\_\_ Mesopores (between 0.1 and  $100 \mu\text{m}$ )
  - \_\_\_ Micropores (smaller than  $0.1 \mu\text{m}$ )
4. Identify a type of geologic material that has:
  - High porosity, high permeability, \_\_\_\_\_
  - Low porosity, low permeability, \_\_\_\_\_
  - High porosity, low permeability, \_\_\_\_\_
  - Low porosity, high permeability, \_\_\_\_\_
5. Circle one:
  - (*Adhesion / Cohesion*) is the attraction of water to the soil surface.