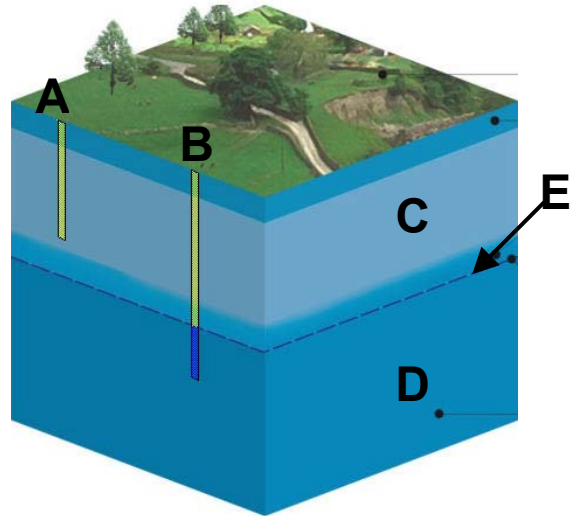


Groundwater Assessment

Answer Sheet

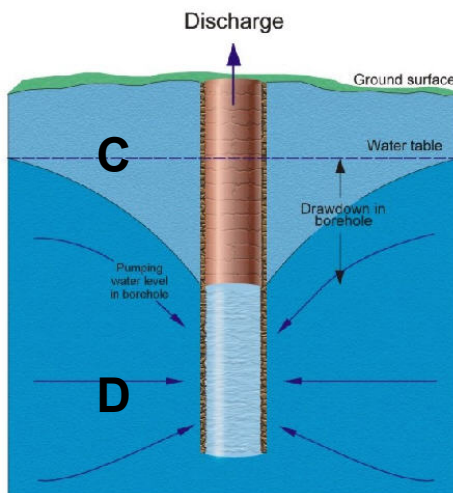
Use the diagram to the right to answer the questions below.

- The zone labeled 'C' is called the
 - Saturated Zone
 - Ablation Zone
 - A. Aeration Zone**
 - Accumulation Zone
- The zone labeled 'D' is called the
 - A. Saturated Zone**
 - Ablation Zone
 - Aeration Zone
 - Accumulation Zone
- The invisible boundary that separates zone 'C' from zone 'D' is called the
 - Divide
 - B. Water Table**
 - Water Line
 - Boundary Table
- Which of the two wells, Well A and Well B, would be able to obtain water? Why?



Well B, because well 'B' has been drilled below the water table into the zone of saturation.

- The process in which water enters into the ground in the hydrologic cycle is called
 - Runoff
 - Precipitation
 - Transpiration
 - D. Infiltration**
- Over seventy percent of the world's fresh water is located in
 - Groundwater
 - B. Glaciers**
 - Lakes
 - Rivers
- In which of the following has the largest accumulation of fresh water.
 - The Worlds Rivers
 - The Worlds Lakes
 - C. The Worlds Aquifers**
 - Streams & Ponds of the World



Use the diagram to the left to answer the questions below.

- Where the zone labeled 'D' is drawn down below the water table by the discharge of the well this is called the
 - A. Cone of Depression**
 - Whirlpool
 - Suction Zone
 - Cone of Depletion
- If this well was no longer able to draw water from this location what would happen to the zone labeled 'D' near the well?

Eventually the cone of depression would rise back up to the original

water table line as water infiltrated the ground.

- What imaginary force carries water from the ground surface to the zone labeled 'D'?

Gravity carried water down to the zone of saturation.

Use the diagram to the right to answer the questions below.

- Which of these is the correct labeling for 1,2, and 3?
 - Artesian Well-1, Spring-2, Confined Aquifer-3
 - Spring-1, Confined Aquifer-2, Artesian Well-3
 - C. Confined Aquifer-1, Spring-2, Artesian Well-3**
- If harmful chemicals were leaked into the ground where the 'X' is located would they contaminate the well water from well labeled '3'? Why or why not?

No, because the confined aquifer is located between two impermeable rock layers. However if the chemicals were Leaked in the recharge zone then they would end up in well 3.

