Assignment 7

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

1. Which of the following objectives can be achieved through pore water sampling?
   - Estimation of alteration characteristics of soil
   - Detection of biological activity
   - To define the buffer zone surrounding the waste management facilities
   2 points

   Correct Answer:
   - Estimation of alteration characteristics of soil

2. Which of the following instruments can be used for pore-water sampling in a laboratory?
   - Tension Meter
   - Soil salinity sensors
   - Gamma radiation
   - All of the above
   1 point

   Correct Answer:
   - Tension Meter

3. Section needs to be applied on an unsaturated geomaterial to sample the pore-water.
   - True
   - False
   1 point

   Correct Answer:
   - True

4. For developing SMC, which of the following property of the soil is/are necessary?
   - Total suction
   - Moisture content
   - Specific surface area
   - Specific gravity
   2 points

   Correct Answer:
   - Total suction, Moisture content

5. Which of the following statements is true for contaminated soils?
   - Zero matrix suction
   - Zero specific suction
   - Yott suction = Matrix suction + Osmotic suction
   - Electrical conductivity is less
   1 point

   Correct Answer:
   - Yott suction = Matrix suction + Osmotic suction

6. Metals buried under the undisturbed soils are more resistant to corrosion due to:
   - Less oxidation and reduction cycles
   - Less organic content
   - Less air and water movement
   - All of the above
   1 point

   Correct Answer:
   - All of the above

7. Which of the following lines control the mechanism of flow through porous media?
   - Darcy’s law
   - Forchheimer’s law
   - Forchheimer’s law
   - None of the above
   1 point

   Correct Answer:
   - Darcy’s law