**Assignment 6**

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

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1. What is the mathematical form of Darcy's law for a uniform flow, where \( q \) = flow velocity, \( h \) = hydraulic gradient, and \( k \) = Darcy's coefficient? 1 point

   - \( q = k \frac{d}{h} \)
   - \( q = k \frac{h}{d} \)
   - \( q = k \frac{d}{h} \)

   No, the answer is incorrect.

2. Solve for the velocity in the given expression. \( v \) = velocity, \( n \) = porosity, \( 
\nu \) = kinematic viscosity, \( \lambda \) = dynamic viscosity. \( v = \frac{n}{\nu} \lambda \) 1 point

   - \( v = \frac{n}{\nu} \lambda \)
   - \( v = \frac{n}{\nu} \lambda \)
   - \( v = \frac{n}{\nu} \lambda \)

   No, the answer is incorrect.

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7. Select the laboratory tests for determining the hydraulic conductivity of soils. 1 point

   - Grain size distribution
   - Permeability to fluid
   - Hydraulic conductivity
   - All of the above

   No, the answer is incorrect.

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10. Which of the following is the appropriate relation used to determine the permeability of sands? 1 point

    - \( k = \frac{v}{d} \)
    - \( k = \frac{v}{d} \)
    - \( k = \frac{v}{d} \)
    - \( k = \frac{v}{d} \)

    No, the answer is incorrect.

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**Due on 2023-05-18, 23:00 IST.**