Week 1, Assignment 1

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

1. The mass specific gravity of a fully saturated clay specimen having a water content of 40% is 1.88. The specific gravity of clay will be

- 1.85
- 2.87
- None

No, the answer is incorrect. 
accepted answers: 2.87

2. With the General notation (for w<0, water content):

\[ w < 0 \]
\[ w = 0 \]
\[ 0 \leq w < 100 \]
\[ w > 100 \]

No, the answer is incorrect. 
accepted answers: 0

3. A steep grain size distribution curve represents

- More uniform grain sizes
- Fewer uniform grain sizes
- Grains of all sizes
- None

No, the answer is incorrect. 
accepted answers: More uniform grain sizes

4. The principle used in hydrometer analysis is

- Newton's law
- Darcy's law
- Stokes' law
- Rollihake's law

No, the answer is incorrect. 
accepted answers: Stokes' law

5. The biggest size of clay particle is

- 0.002mm
- 0.002mm
- 0.001mm
- 0.01mm

No, the answer is incorrect. 
accepted answers: 0.002mm

6. Which one of the following represents the effective size or effective diameter of soil particles?

- \( D_{50} \)
- \( D_{10} \)
- \( D_{90} \)
- None

No, the answer is incorrect. 
accepted answers: \( D_{50} \)

7. The coefficient of uniformity and curvature of a soil are 4 and 1 respectively. The ratio of \( D_{50} / D_{10} \) is

- 4
- 1
- 2
- None

No, the answer is incorrect. 
accepted answers: 2

8. Stokes' law is valid only if the size of the particle is

- <0.056mm
- >0.056mm
- between 0.056mm and 0.0062mm
- None

No, the answer is incorrect. 
accepted answers: between 0.056mm and 0.0062mm

9. Which is the most accurate method to determine water content?

- oven dry method
- sand bath method
- nuclear method
- None of the above

No, the answer is incorrect. 
accepted answers: oven dry method

10. Grain size distribution curve is plotted between size of particles and ______

- Percent Size by weight
- Percent Size by volume
- Depend on the type of soil
- None of the above

No, the answer is incorrect. 
accepted answers: Percent Size by weight

Due on 2019-06-14, 23:59 IST.