Assignment-3

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

1) Which of the following constituents of the soil are considered as contaminants?
   - Interglobular cement
   - Organic matter
   - Dissolved salts
   - Air
   No, the answer is incorrect.
   Accepted Answers: Dissolved salts

2) Which of the following constituents of the soils are formed by the chemical weathering of rocks?
   - Primary minerals
   - Organic matter
   - Clay minerals
   - Water
   No, the answer is incorrect.
   Accepted Answers: Clay minerals

3) Specific surface area (SSA) of a soil is defined as ___________
   - Total surface area
   - Total surface area/volume
   - Total surface area/volume²
   - Total surface area/length
   No, the answer is incorrect.
   Accepted Answers: Total surface area/length

4) Increase in the SSA leads to ___________
   - Reduction in particle size and activity
   - Increase in particle size and activity
   - Increase in particle size and reduction in activity
   - Reduction in particle size and increase in activity
   No, the answer is incorrect.
   Accepted Answers: Reduction in particle size and activity

5) Which of the following instruments can be used for elemental analysis of soils?
   - X-ray diffractometer
   - Scanning electron microscope
   - X-ray fluorescence spectrometer
   - All the above
   No, the answer is incorrect.
   Accepted Answers: All the above

6) XRD stands on ___________
   - X-ray diffraction
   - X-ray crystallography
   - X-ray spectroscopy
   - All the above
   No, the answer is incorrect.
   Accepted Answers: X-ray diffraction

7) Which of the following deformation mechanisms is negligible in case of soils with rigid boundaries?
   - Rolling
   - Sliding
   - Crushing
   - None of the above
   No, the answer is incorrect.
   Accepted Answers: None of the above

8) Which of the following characteristics are predominant in the granule soils?
   - Cohesion
   - Fixation
   - Both a and b
   - None of the above
   No, the answer is incorrect.
   Accepted Answers: Both a and b

9) Which of the following soil types exhibit predominantly cohesion?
   - Marine soils
   - Aerial soils
   - Podzol
   - All of the above
   No, the answer is incorrect.
   Accepted Answers: Marine soils

10) Clay particles are surrounded by __________ layer
    - Adsorbed water
    - Free water
    - Double layer
    - None of the above
    No, the answer is incorrect.
    Accepted Answers: Adsorbed water