



SHANTILAL SHAH ENGINEERING COLLEGE, BHAVNAGAR  
APPLIED MECHANICS DEPARTMENT

Assignment No: 03

Date: 05/09/2018

Sub Code 2130606

**GEOTECHNICS**

Title of Subject Geotechnics & Applied Geology

1	Discuss different shapes of the soil particles.
2	What is plasticity index? How soil is classified based on plasticity index?
3	Discuss IS classification system.
4	What are the properties of absorb water?

**Date of Submission – Assignment - III**

**A – Division – 18/09/2018**

**B – Division – 21/09/2018**



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1	The results of a sieve analysis of a soil are as under:											
	IS Sieve(mm)	20	10	4.75	2.0	1.0	0.600	0.425	0.212	0.150	0.075	Pan
	Mass of soil Retained(g)	35	40	80	150	150	140	115	55	35	25	75
	Total mass of sample= 1000 gm											
	Draw the particle size distribution curve and determine the uniformity coefficient and the coefficient of curvature.											
2	Determine the time $t$ required in Minutes for particles of diameter 0.2 mm to fall a height of 10 cm from surface in water. Take $G=2.65$ , $\mu = 8.15 \times 10^{-3}$ poise.											

Date of Submission – Assignment - IV

A – Division – 18/09/2018

B – Division – 21/09/2018