

Name : ABDUL ALI ID # 7884

Section : A Subject : Geotechnical Engineering
Lab

Submitted To : Engr Muneeb

Semester: 6th

Q1: What is the difference between proctor test and standard penetration test?

ANSWER:

STANDARD PROCTOR TEST:

- i. This is used to assess whether various forms of soil combine.
- ii. Its graphs are in circular form.
- iii. There is also a connection between soil moisture content and soil density.
- iv. The instilu test is performed to decide the optimum humidity output.
- v. Maximum optimal humidity lowest dry density volume.

Standard Penetration Test :

- i. It's a easy,low-cost system.
 - ii. Its finished in a borehole.
 - iii. Analyze the actual density and shoring angle of the binding resistance less dirt.
 - iv. Specific geotechnical capacity of the soil are generally calculated in site process.
 - v. It is often used to assess the compressive power of the stability soil unregulated or unconstrained.
-

Q.2: What is the classification of soil based on free swell index?

ANSWER:

Free Swell Index:

- Less than 20
- 20-35
- 35-50

- Greater than 50

Degree Of Expansives:

- Low
- Moderate
- High
- Very High

Plastic Limit:

- 0-35%
- 25-50%
- 35-65%
- Greater than 45%

Q.3 : Why is permeability test for soil important:

ANSWER:

The following is relevant due to the obvious permeability check for soil:

- i. To learn that is water that nourishes plant heart.

- ii. Whether integration occurs is essential in engineering, so it is observed.
- iii. Its also important to learn about the aquatic community in fisheries.
- iv. To test for water to fall through the earth.