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Q1. what is the difference b/w
proctor test & standard
penetration test?

Standard Penetration
Test

Proctor
Test.

- | | |
|---|--|
| → It is simple & inexpensive method | → Used to determine the compaction of different types of soil. |
| → It is carried out in bore hole | → gives us the relation b/w the moisture content and density. |
| → Determined the optimal moisture content | → To determine unconfined compressive strength. |
| → Its graph is parabolic in shape | → Its Graph is not parabolic in shape. |

②

Q02. what is the Classification of Soil based on free Swell index

free Swell index	degree of expansive	plastic limit
< 20	low	0-35%
20-35	moderate	25-50%
35-50	high	35-65%
> 50	very high	> 45%

(3)

Q3- why is permeability test for soil important?

Ans:

- To know whether plant root are being nourished by water.
- It's important to know whether consolidation occurs. So it's observed.
- Also helped in fisheries. To know about the fish culture.
- To check if there is seepage of water into ground.