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Sec # A

Assignment
Quiz

AM:

Geotechnical Report:-

we are going to discuss line project and carry out necessary soil investigation in Kohat

⇒ Site Investigation:-

Sub surface exploration are done for ~~the~~

obtaining the information about subsurface,

condition at the site of proposed

Construction.

Site Investigation
 is in one form
 or the other is
 generally required for
 every big engineering
 project. Information
 about Surface &
 Sub-Surface features
 is essential for
 the design of
 structures.

⇒ Laboratory Investigation
 following test are
 concluded on Soil
 Samples.

• Determination of Specific Gravity.

• " of Shrinkage limit.

• " Swell Index

• " plasticity Index

=> plastic limit / liquid

limit also considered

⇒ Conclusions:

In the end Average Specific Gravity of Soil at high temp (Gr = 2.47) of Kohat.

which also conclude that Soil is more Saturated and organic to wet of it.

Ans:

Q.12

The Software which are used in geotechnical engineering are following below

① SEEP 2D

② STABL

③ SVFLUX

④ SV SLOPE

⑤ VTEXAS

SEEP 2D :-

Seep 2D is a 2D Seepage analysis program written by Dr. Fred Tracy of the United States Army Corps of Engineers.

The program is used to analyze water Seepage through dams, levees or sheet piles.

②

STABLE :-

it is another vital software which is used for summarization of sophisticated data. It's behaviour functionality specification or API which is considered final for that version. It is highly recommended software by experts.

③

SV flux :-

It is an finite element seepage analysis program.

developed by Soil-Vision
System (LTD). The software
is designed to analyze
both saturated and
un-saturated flow through
the ground.

④ SV slope: It's a Slope
Stability analysis program
developed by Soil Vision (LTD)
The software is designed
to analyze slopes
using both the classic
"method of slice"
as well as newer
stress-based methods

⑤ UTEXAS Software:-

The main language of this software is English but now it has been translated to my language, due to its high value of need of it, in the field and help to analyze the Slope Stability:-