

Question

The general exploration gives information about which of the following features?

Source of information for site investigations are

A site investigation must be developed in _____ phases

Typical site characterization activities include

To obtain information about the soil conditions above the surface _____ is required

The desk study should be carried out at

Aerial Photography means photography from

The topographic map presents

Remote sensing uses which of the following waves in its procedure?

The seismic method of soil exploration cannot be used for

The various methods of sub surface exploration are

Amongst the following 4-electrode configurations of the electrical resistivity method, which

Geophysical techniques can be used

Seismic Reflection Test is used

Magnetic methods are based on

The most common penetration tests, which are used virtually worldwide, are

The standard penetration test is done using

Types of In Situ or Field Tests are

The standard penetration test is performed in clear hole of _____ mm in diameter

The cone resistance is approximately equal to _____ times the penetration resistance N

For undisturbed samples _____ is used.

Disturbed soil samples are

Design Features affecting the sample disturbance are

A _____ sample has preserved natural structure of soil

For soft sensitive soil, the area ratio of sample

For engineering purpose, soil can be classified in terms of

The purpose of soil classification is to

In consistency of soil, the limits are expressed in terms of

The constant head permeability test is used for

Soils having _____ values of liquid limit and plastic limit are generally considered to be poor en

Answer1

Depth of rock

Geological maps and aerial photos

3

evaluations of the historical uses of property

surface exploration

the start of site investigation

Land

the cultural and physical features of the land

Electric field

sub surface investigation

Seismic Refraction Method & Electrical resistivity method

Schlumberger

to evaluate the properties of a material, component or system with

to evaluate the wave propagation velocity and the thickness of soil

the measurement of local variations in the Earth's magnetic field

The dynamic Standard Penetration Test (SPT)

a split- spoon sampler

Standard penetration test (SPT)

10 to 30

10

compressed air sampler

in-situ soil structure and moisture content are lost, but the soil part

Area ratio

undisturbed

should not exceed 20%

Particle size

To arrange various soils types in to groups

Percent water content

Fine-grained soil

Low

Answer2

Composition of soil strata

Historical geo-technical information

4

site reconnaissance

subsurface exploration

the end of site investigation

Water

soil investigation

Sonar waves

hard layers

Open Borings

Pole-Pole

to the process of ground investigation

to measure the wave propagation velocity

the electric field

The Static Cone Penetration Test (CPT).

a cylindrical augers

Cone penetrometer test (CPT)

30 to 50

20

thick sampler

soil structure and moisture content are preserved

Inside Clearance

disturbed

should not exceed 10%

Textural

To use it for various purpose

Area

Coarse-grained soil

High

Answer3

Ground water level

Construction records

5

collection and analysis of environmental samples

specific construction method

the middle of site investigation

Air

information about mining

Gamma- rays

clays

Rotary Drilling

Wenner

to determine the junctions between the different beds of soil or rock

to measure the travel time of seismic waves

the gravitational field

Only a

a post hole auger

Pressuremeter test (PMT)

55 to 150

30

thin sampler

in-situ soil structure, moisture content nor the soil particles are preserved

Outside Clearance

non-representative

should not exceed 15%

Unified soil

For finding its properties

Volume

Clay soil

Same

Answer4

All of the mentioned

All of the mentioned

6

All of the mentioned

none of above

none of the above

None of the above

none of the above

Electro-magnetic waves

sandy soils

none of the above

Dipole-Dipole

all of the mentioned

to provide the details of

none of the above

Both a & b

a cone penetrometer

All of the mentioned

150 to 1000

40

rotary sampler

not representative

All of the mentioned

remoulded

should not exceed 40%

All of the mentioned

For investigating the soil

All of the mentioned

Saturated soil

Different

CorrectOption	Marks
Answer4	1
Answer4	1
Answer3	1
Answer4	1
Answer1	1
Answer1	1
Answer3	1
Answer1	1
Answer4	1
Answer2	1
Answer1	1
Answer2	1
Answer4	1
Answer1	1
Answer1	1
Answer4	1
Answer1	1
Answer4	1
Answer3	1
Answer4	1
Answer1	1
Answer1	1
Answer4	1
Answer1	1
Answer2	1
Answer4	1
Answer1	1
Answer1	1
Answer2	1
Answer2	1