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NPTEL

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Courses » Foundation Design

Announcements

Course

Forum

Progress

Mentor

Unit 2 - Week 1

Course outline

How to access the portal

Week 1

- Lecture 1A - Subsoil Investigation or Site Investigation - Part - 1
- Lecture 1B - Subsoil Investigation or Site Investigation - Part - 2
- Lecture 2A - Subsoil Investigation or Site Investigation - Part - 3
- Lecture 2B - Subsoil Investigation or Site Investigation - Part - 4
- Quiz : Assignment 1
- Assignment-1 Solution

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Assignment 1

1) For an undisturbed sample, the area ratio of the samples should be

1 point

- zero
- 10% or less
- 10% to 20%
- more than 20%

Accepted Answers:

10% or less

2) Auger boring is used in _____ type of soil

1 point

- Cohesionless soil
- Cohesive soil
- Coarse-grained soil
- Pervious soil

Accepted Answers:

Cohesive soil

3) Which of the following method is adopted for fast boring?

1 point

- Cylindrical augers
- Percussion boring
- Rotary boring
- Wash boring

Accepted Answers:

Wash boring

4) Auger boring is most suitable for _____ type of work.

1 point

- Air field pavement
- Highway exploration
- Dam construction

Week 9

Week 10

Week 11

Week 12

- Buildings

Accepted Answers:

Highway exploration

5) Wash boring cannot be used for _____ type of soil strata. **1 point**

- Cohesive soil
 Cohesionless soil
 Boulder
 All of the mentioned

Accepted Answers:

Boulder

6) The type of boring method that can be used for both rock and soils are _____ **1 point**

- Shell boring
 Wash boring
 Auger boring
 Rotary boring

Accepted Answers:

Rotary boring

7) The plate load test consists in loading a rigid plate at the _____ **1 point**

- Base of the footing
 Bottom of the construction
 Foundation level
 All of the mentioned

Accepted Answers:

Foundation level

8) The size of bearing plate, which used in plate load test varies from _____ **1 point**

- 300 to 750 mm
 25 to 100 mm
 100 to 300 mm
 25 to 300 mm

Accepted Answers:

300 to 750 mm

9) The values derived from penetration tests can be used for finding _____ **1 point**

- Depth of hard stratum and Strength of soil
 Soil saturation
 None of the mentioned
 All of the mentioned

Accepted Answers:

Depth of hard stratum and Strength of soil

10) The observed value of N in static cone penetration test is corrected by _____ **1 point**

- Overburden and Dilatancy /submergence
- Effective pressure
- None of the mentioned
- All of the mentioned

Accepted Answers:*Overburden and Dilatancy /submergence*

11) The split tube used in static cone penetration test, is commonly known as _____ **1 point**

- Split spoon sampler
- Split tube sampler
- Tube sampler
- All of the mentioned

Accepted Answers:*Split spoon sampler*

12) The total blow required for the second and third 15 cm of penetration in standard penetration test is taken as _____ **1 point**

- Seating drive
- Penetration resistance
- Overburden pressure
- Dilatancy/submergence

Accepted Answers:*Seating drive*[Previous Page](#)[End](#)

Assignment 1

1. (b)

2.(b)

3. (d)

4. (b)

5. (c)

6. (d)

7. (c)

8. (a)

9. (a)

10. (a)

11. (a)

12. (a)