Assignment 2

The due date for submitting this assignment has passed. Due on 2019-03-13, 23:59 IST.
As per our records you have not submitted this assignment.

1) Rotary drilling is most suitable in case of
   - Rocky medium
   - Sand medium
   - Silt medium
   - Clay medium

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Rocky medium

2) Kind of auger is most suitable in case of heavy rooted soil
   - Screw auger
   - Bucket auger
   - Plane auger
   - Dutch auger

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Bucket auger

3) Representative sample is a subcategory of
   - Disturbed sample
   - Undisturbed sample
   - Poorly graded sample
   - Well graded sample

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Disturbed sample

4) Lengths of rock sample in a 152.4 cm rock core is measures to be 12.7 cm, 7.62 cm, 5.08 cm, 10.16 cm, 5.08 cm, 12.7 cm, 5.08 cm, 17.78 cm, 38.1 cm, 2.54 cm, 25.4 cm. What is the Rock Quality Designation?
   - 60%
   - 77%
   - 80%
   - 85%

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   80%
5) A vane of length 10 cm and diameter 7 cm was pressed into clay. Torque was applied to cause failure of soil and the shear strength of clay was found to be 30 kN/m². Determine the torque that was applied.

- 0.028 kN-m
- 0.72 kN-m
- 0.1 kN-m
- 0.6 kN-m

No, the answer is incorrect.
Score: 0
Accepted Answers: 0.028 kN-m

6) Calculate the sensitivity of clay given in question 5, if the shear strength of remoulded sample was found to be 15 kN/m².

- 1
- 2
- 3
- 4

No, the answer is incorrect.
Score: 0
Accepted Answers: 2

7) In a vane test on clay a torque of 30 N-m is required to shear the soil. The vane is 60 mm in diameter and 100 mm long. Calculate the undrained strength of the clay?

- 11.2 N/mm²
- 11306 N/mm²
- 1.113 kN/mm²
- 113.06 N/mm²

No, the answer is incorrect.
Score: 0
Accepted Answers: 113.06 N/mm²

8) The range of SPT N value for soils of dense consistency is:

- 4 to 10
- 10 to 30
- 30 to 50
- >50

No, the answer is incorrect.
Score: 0
Accepted Answers: 30 to 50

9) Dilatancy correction to the field measured SPT N value is required for what type of soils?

- All type of soil
- Dry sand
- Saturated clay/silt

No, the answer is incorrect.
Score: 0
Accepted Answers: Saturated clay/silt
Dilatancy correction to the field measured SPT N value is not applicable if the SPT N value is less than:

- 10
- 15
- 20
- 25

No, the answer is incorrect.
Score: 0
Accepted Answers:
Saturated sand/silt

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