

QUIZ NO: 737

TOPIC: GEOTECHNICAL ENGINEERING

DATE: 18/07/2023

1. Undisturbed samples from soft and sensitive clay is obtained using:

- [A] Split spoon sampler
- [B] Rotary sampler
- [C] Shelby tube sampler
- [D] Piston sampler

Answer: D

2. For least resistance, outside clearance should lie between:

- [A] 0.5 - 3%
- [B] 0 - 5%
- [C] 0.5 - 4%
- [D] 0 - 2%

Answer: D

3. For undisturbed sampling, inside clearance should lie between:

- [A] 1 - 4%
- [B] 0.5 - 5%
- [C] 0 - 2%
- [D] 0.5 - 3%

Answer: D

4. As per IS: 4453 the clear working space at the bottom of a soil exploration pit should be:

- [A] 1 m × 1 m
- [B] 1.2 m × 1 m
- [C] 1.2 m × 1.2 m
- [D] 0.9 m × 1.2 m

Answer: C

5. Significant depth of exploration in soil is given by:

- [A] 1.0 q
- [B] 0.5 q
- [C] 0.4 q
- [D] 0.2 q

Answer: D

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6. Height of fall in standard penetration test for a mass of 63.5 kg is:

- [A] 750 mm
- [B] 650 mm
- [C] 775 mm
- [D] 700 mm

Answer: A

7. During a sampling operation, the drive sampler is advanced 600 mm and the length of the sample recovered is 500 mm. What is the recovery ratio of the sample?

- [A] 1.2
- [B] 0.14
- [C] 0.12
- [D] 0.83

Answer: D

8. The observed N value from a standard penetration test conducted on a saturated sandy soil stratum is 39. The corrected N value after dilatancy correction is:

- [A] 27
- [B] 45
- [C] 20
- [D] 15

Answer: A

9. Wash boring cannot be used for _____ type of soil strata

- [A] Cohesive soil
- [B] Cohesion less soil
- [C] Boulder
- [D] All of the above

Answer: C

10. In site exploration, depth up to which the increase in pressure is likely to cause shear failure is known as _____

- [A] Failure depth
- [B] Significant depth
- [C] Pressure depth
- [D] Depth of exploration

Answer: B

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