



9497498415 | 16 | 17

ANSWER KEY

**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** 





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3.	For undisturbed	sampling.	inside o	clearance	should l	lie between:
J.	I of undistance	samping,	monut	cicarance	siivuiu i	iic 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]  $1 \text{ m} \times 1 \text{ m}$
- [B]  $1.2 \text{ m} \times 1 \text{ m}$
- [C]  $1.2 \text{ m} \times 1.2 \text{ m}$
- [D]  $0.9 \text{ m} \times 1.2 \text{ m}$

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

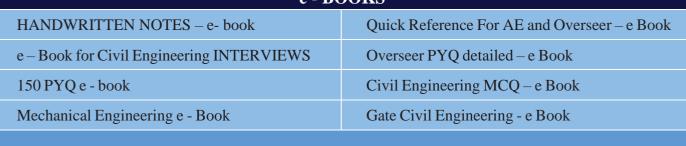
Answer: D

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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 mi and the length of the sample recovered is 500 mm. What is the recover
	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





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9. Wash boring cannot be used for[A] Cohesive soil	_ type of soil strata				
[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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