

***** EXAMINATION *****

SOIL SAMPLING

1. **The principal objective of a subsurface investigation is:**
 - a) define the geotechnical engineering characteristics
 - b) identify the geology
 - c) correlate the geology
 - d) All of the above.

2. **The geotechnical characteristics include:**
 - a) permeability
 - b) conductivity
 - c) negativity
 - d) None of the above.

3. **The limits of testing are dependent on the:**
 - a) geology
 - b) proposed structure.
 - c) compressivity
 - d) permeability

4. **Soil investigations include:**
 - a) design of foundations
 - b) environmental effects
 - c) remedial works
 - d) All of the above.

5. **The site investigation study includes:**
 - a) the effect of rain
 - b) the hydrology
 - c) field subsurface investigation.
 - d) All of the above.

6. **The five phases of the site investigation study does not include:**
 - a) preliminary studies
 - b) laboratory testing
 - c) reporting
 - d) hydrology.

7. **Preliminary soil studies include:**
- a) photographs
 - b) acidity
 - c) site surveys
 - d) None of the above.
8. **Field subsurface investigations include:**
- a) remote sensing
 - b) geophysical methods
 - c) indirect observations which include in situ tests.
 - d) All of the above.
9. **In situ tests may involve:**
- a) hydrology
 - b) hydrography
 - c) cone penetration
 - d) None of the above.
10. **The most economical method for obtaining deep samples is:**
- a) remote sensing
 - b) core drilling
 - c) test pits
 - d) None of the above.
11. **Single dimensional samples are obtained from:**
- a) cores
 - b) trenches
 - c) pits
 - d) mines
12. **Samples from storage bins and stock piles must be:**
- a) dry
 - b) wet
 - c) representative
 - d) None of the above.
13. **The Hvorslev definition of sample quality is:**
- a) mixed or porous
 - b) smooth or rough
 - c) low to high
 - d) representative or nonrepresentative.
14. **A nonrepresentative sample is generated by:**
- a) augering
 - b) moving the sample
 - c) examining the sample
 - d) None of the above.

15. **Disturbed samples are primarily used for:**
- a) moisture content
 - b) specific gravity
 - c) sieve analysis
 - d) All of the above.
16. **Undisturbed samples can be obtained using a:**
- a) shovel
 - b) rotary-core sampler
 - c) auger
 - d) None of the above.
17. **Undisturbed samples are useful for determining:**
- a) conductivity
 - b) separability
 - c) compressibility
 - d) All of the above.
18. **A critical factor causing disturbance during sampling is:**
- a) humidity
 - b) conductivity
 - c) kerf ratio
 - d) None of the above.
19. **Permissible area ratios depend on the:**
- a) soil type
 - b) soil strength
 - c) purpose of the sampling operation
 - d) All of the above
20. **Boring may be eased by:**
- a) explosives
 - b) drilling mud
 - c) air
 - d) None of the above

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